

# FIBER ORGANON

Volume 63, No. 6 □ June 1992

A publication of Fiber Economics Bureau, Inc.

## WORLDWIDE MANUFACTURED FIBER SURVEY

### Highlights

- Worldwide Survey -

Fiber Demand  
Production and Producing Capacities  
Utilization Rates  
Olefin Fiber Production

### Featuring...

Our annual survey of worldwide manufactured fiber production and planned capacity.

Worldwide data in this issue are reported in thousand metric tons. The production and capacity tables will be published again in the July issue in millions of pounds. Country data on available supply will be published in the *Fiber Organon* as soon as information is available.

Data for previous years for most of the tables in this issue can be found in the *Textile Organon Base Book* (1962) and subsequent June issues of the *Textile Organon* and *Fiber Organon*. The cotton demand figures shown in the table on page 99 are based on worldwide consumption rather than production, to eliminate problems from wide swings in cotton inventories.

### New ---- now available

## WORLD DIRECTORY OF MANUFACTURED FIBER PRODUCERS FIRST EDITION

The Fiber Economics Bureau, Inc. announces publication of the first edition of its new *World Directory of Manufactured Fiber Producers*.

Over 2 years in the making, this comprehensive directory lists over 800 manufactured fiber producers in 70 countries. The company section provides full address, telephone and fax numbers, their product lines, generic fibers, plant location and trade names for each firm.

The directory has been compiled from reports from foreign manufactured fiber associations, production companies and individuals, as well as the U.S. Foreign Commercial Service posts of the International Trade Administration of the U.S. Department of Commerce.

The purchase price for the *World Directory of Manufactured Fiber Producers* is \$300.00. An order form can be found at the back of this issue.

For more information, contact Fiber Economics Bureau, Inc., 101 Eisenhower Parkway, Roseland, NJ 07068. Telephone: (201) 228-1107 or Fax: (201) 228-7598.

June 1992

# Fiber Organon

A Monthly Review

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#### FIBER ECONOMICS BUREAU, INC.

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**TABLE 1:**  
**WORLDWIDE DEMAND FOR CERTAIN FIBERS**  
THOUSAND METRIC TONS

| TYPE OF FIBER                           | 1987         | 1988         | 1989         | 1990         | 1991         | % CHANGE<br>1991/1990 |
|-----------------------------------------|--------------|--------------|--------------|--------------|--------------|-----------------------|
| <b>ARTIFICIAL (CELLULOSIC) FIBERS</b>   |              |              |              |              |              |                       |
| YARN+MONOFILAMENTS                      | 911          | 942          | 920          | 878          | 832          | -5.2                  |
| STAPLE+TOW                              | 1914         | 1937         | 1994         | 1858         | 1682         | -9.5                  |
| <b>TOTAL ARTIFICIAL (CELLULOSIC)</b>    | <b>2825</b>  | <b>2879</b>  | <b>2914</b>  | <b>2736</b>  | <b>2514</b>  | <b>-8.1</b>           |
| <b>SYNTHETIC (NONCELLULOSIC) FIBERS</b> |              |              |              |              |              |                       |
| YARN+MONOFILAMENTS                      | 6040         | 6553         | 6825         | 7022         | 7181         | +2.3                  |
| STAPLE+TOW                              | 7701         | 7825         | 7945         | 7880         | 7976         | +1.2                  |
| <b>TOTAL SYNTHETIC (NONCELLULOSIC)</b>  | <b>13741</b> | <b>14378</b> | <b>14770</b> | <b>14902</b> | <b>15157</b> | <b>+1.7</b>           |
| <b>TOTAL MANUFACTURED *</b>             | <b>16566</b> | <b>17257</b> | <b>17684</b> | <b>17638</b> | <b>17671</b> | <b>+0.2</b>           |
| % of World Total                        | 45%          | 46%          | 46%          | 46%          | 46%          |                       |
| <b>NATURAL FIBERS</b>                   |              |              |              |              |              |                       |
| RAW COTTON <sup>b</sup>                 | 18243        | 18484        | 18733        | 18714        | 18650        | -0.3                  |
| RAW WOOL <sup>c</sup>                   | 1771         | 1812         | 1867         | 1955         | 1954         | -0.1                  |
| RAW SILK <sup>d</sup>                   | 63           | 64           | 66           | 66           | 67           | +1.5                  |
| <b>TOTAL NATURAL</b>                    | <b>20077</b> | <b>20360</b> | <b>20666</b> | <b>20735</b> | <b>20671</b> | <b>-0.3</b>           |
| % of World Total                        | 55%          | 54%          | 54%          | 54%          | 54%          |                       |
| <b>WORLD TOTAL</b>                      | <b>36643</b> | <b>37617</b> | <b>38350</b> | <b>38373</b> | <b>38342</b> | <b>-0.1</b>           |
| World Total %                           | 100%         | 100%         | 100%         | 100%         | 100%         |                       |

The silk and manufactured fiber data are on a calendar year basis, while the figures for cotton and wool are on a seasonal basis.

a. Manufactured fiber data are from tables 4 and 5. Glass fiber, olefin and acetate cigarette tow production are not included.

b. International Cotton Advisory Committee. *Cotton: Review of the World Situation*, March - April 1992. New series based on cotton consumption data.

c. Commonwealth Secretariat. *Wool Statistics 1990-91*, on a clean wool basis. See also the December 1991 *Fiber Organon*, page 291.

d. International Silk Association; Food and Agriculture Organization of the United Nations.

**TABLE 2:**  
**WORLDWIDE GLASS FIBER**  
**PRODUCTION & PRODUCING CAPACITY**  
THOUSAND METRIC TONS

| COUNTRY                                    | PRODUCTION  |             |             |             |             | CAPACITY    |             |
|--------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                            | 1987        | 1988        | 1989        | 1990        | 1991        | 3/92        | 12/93       |
| WEST EUROPE                                |             |             |             |             |             |             |             |
| EAST EUROPE <sup>a</sup> }                 | 407         | 465         | 470         | 445         | 441         | 570         | 653         |
| U.S.A.                                     | 725         | 730         | 735         | 675         | 650         | 872         | 919         |
| OTHER AMERICAS                             | 50          | 65          | 65          | 60          | 75          | 100         | 105         |
| JAPAN                                      | 300         | 340         | 345         | 371         | 293         | 341         | 341         |
| MIDDLE EAST, AFRICA & OCEANIA <sup>b</sup> | 35          | 55          | 65          | 80          | 102         | 120         | 180         |
| <b>TOTAL ABOVE</b>                         | <b>1517</b> | <b>1655</b> | <b>1680</b> | <b>1631</b> | <b>1561</b> | <b>2003</b> | <b>2198</b> |
| CHINA, PRC                                 | 55          | 65          | 70          | 75          | 65          | 110         | 130         |
| C.I.S.                                     | 110         | 125         | 133         | 120         | 133         | 190         | 190         |

Glass fiber is defined on page 117 of this issue. The glass fiber producing capacity is based on March 1992 and December 1993 annual projections.

a. The data for East Europe do not include estimates for the C.I.S.

b. The Other Asia, Africa & Oceania countries are Australia, India, Korea, Rep. of, South Africa and Taiwan.

**TABLE 3:**  
**ESTIMATED WORLDWIDE**  
**CIGARETTE TOW PRODUCTION**  
THOUSAND METRIC TONS

| AREA                          | 1987       | 1988       | 1989       | 1990       | 1991       |
|-------------------------------|------------|------------|------------|------------|------------|
| EUROPE <sup>a</sup>           | 107        | 114        | 118        | 120        | 120        |
| U.S.A.                        | 247        | 249        | 265        | 274        | 279        |
| OTHER AMERICAS <sup>b</sup> } |            |            |            |            |            |
| ASIA <sup>c</sup>             | 46         | 49         | 55         | 58         | 69         |
| CHINA, PRC                    | 0          | 0          | 5          | 12         | 12         |
| <b>WORLD TOTAL</b>            | <b>400</b> | <b>412</b> | <b>443</b> | <b>464</b> | <b>480</b> |

a. Belgium, C.I.S., Germany & United Kingdom.

b. Brazil, Canada, Colombia, Mexico & Venezuela.

c. Japan and Korea, Rep. of.

**TABLE 4:**  
**WORLDWIDE SYNTHETIC (NONCELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY**  
**BY COUNTRY EXCEPT OLEFIN**  
**THOUSAND METRIC TONS**

| COUNTRY                     | ACTUAL PRODUCTION |               |               |               |               |               |               |               |               |
|-----------------------------|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                             | 1987              |               |               | 1988          |               |               | 1989          |               |               |
|                             | Y                 | S             | TOTAL         | Y             | S             | TOTAL         | Y             | S             | TOTAL         |
| <b>WESTERN EUROPE</b>       |                   |               |               |               |               |               |               |               |               |
| AUSTRIA                     | 0                 | 15.7          | 15.7          | 0             | 16.7          | 16.7          | 0             | 17.4          | 17.4          |
| BENELUX <sup>a</sup>        | 74.0              | 33.0          | 107.0         | 76.9          | 33.6          | 110.5         | 80.0          | 40.0          | 120.0         |
| FINLAND                     | 0.1               | 0             | 0.1           | 0.1           | 0             | 0.1           | 0.2           | 0             | 0.2           |
| FRANCE                      | 56.8              | 104.2         | 161.0         | 58.4          | 116.4         | 174.8         | 58.4          | 106.6         | 165.0         |
| GERMANY <sup>b</sup>        | 355.3             | 404.0         | 759.3         | 359.9         | 391.2         | 751.1         | 355.0         | 420.0         | 775.0         |
| GREECE                      | 9.4               | 10.0          | 19.4          | 9.5           | 9.5           | 19.0          | 10.2          | 8.0           | 18.2          |
| IRELAND                     | 11.0              | 63.0          | 74.0          | 13.5          | 65.7          | 79.2          | 16.7          | 73.3          | 90.0          |
| ITALY/MALTA                 | 171.0             | 393.6         | 564.6         | 186.6         | 377.6         | 564.2         | 195.0         | 345.0         | 540.0         |
| PORTUGAL                    | 0                 | 57.8          | 57.8          | 0             | 54.3          | 54.3          | 0             | 55.8          | 55.8          |
| SPAIN                       | 80.5              | 188.0         | 268.5         | 79.6          | 185.8         | 265.4         | 79.3          | 175.7         | 255.0         |
| SWITZERLAND                 | 66.2              | 22.1          | 88.3          | 72.8          | 27.4          | 100.2         | 72.6          | 23.0          | 95.6          |
| TURKEY                      | 69.0              | 191.0         | 260.0         | 77.0          | 182.0         | 259.0         | 87.0          | 196.0         | 283.0         |
| UNITED KINGDOM              | 81.4              | 121.6         | 203.0         | 93.6          | 99.9          | 193.5         | 100.0         | 85.0          | 185.0         |
| <b>TOTAL WESTERN EUROPE</b> | <b>974.7</b>      | <b>1604.0</b> | <b>2578.7</b> | <b>1027.9</b> | <b>1560.1</b> | <b>2588.0</b> | <b>1054.4</b> | <b>1545.8</b> | <b>2600.2</b> |
| <b>EASTERN EUROPE</b>       |                   |               |               |               |               |               |               |               |               |
| ALBANIA                     | 0.5               | 0             | 0.5           | 0.5           | 0             | 0.5           | 0.5           | 0             | 0.5           |
| BULGARIA                    | 39.6              | 48.7          | 88.3          | 40.9          | 49.2          | 90.1          | 40.9          | 49.6          | 90.5          |
| C.I.S.                      | 435.0             | 410.2         | 845.2         | 457.7         | 401.3         | 859.0         | 472.0         | 402.0         | 874.0         |
| CZECHOSLOVAKIA              | 76.6              | 46.5          | 123.1         | 92.6          | 48.6          | 141.2         | 88.7          | 52.3          | 141.0         |
| EAST GERMANY                | 74.3              | 80.7          | 155.0         | 79.0          | 96.7          | 175.7         | 68.0          | 109.3         | 177.3         |
| HUNGARY                     | 6.8               | 13.8          | 20.6          | 8.0           | 14.2          | 22.2          | 6.2           | 14.0          | 20.2          |
| POLAND                      | 87.8              | 46.6          | 134.4         | 90.0          | 50.6          | 140.6         | 88.0          | 51.4          | 139.4         |
| ROMANIA                     | 59.5              | 142.4         | 201.9         | 48.7          | 143.6         | 192.3         | 40.6          | 118.7         | 159.3         |
| YUGOSLAVIA                  | 46.0              | 63.9          | 109.9         | 45.2          | 57.8          | 103.0         | 47.1          | 60.4          | 107.5         |
| <b>TOTAL EASTERN EUROPE</b> | <b>826.1</b>      | <b>852.8</b>  | <b>1678.9</b> | <b>862.6</b>  | <b>862.0</b>  | <b>1724.6</b> | <b>852.0</b>  | <b>857.7</b>  | <b>1709.7</b> |
| <b>TOTAL EUROPE</b>         | <b>1800.8</b>     | <b>2456.8</b> | <b>4257.6</b> | <b>1890.5</b> | <b>2422.1</b> | <b>4312.6</b> | <b>1906.4</b> | <b>2403.5</b> | <b>4309.9</b> |

Y Yarn+monofilaments.

S Staple+tow+fiberfill.

a. Includes Belgium, Netherlands and Luxembourg.

b. As of January 1991, East & West Germany combined under Germany.

| ACTUAL PRODUCTION |        |        |        |        |        | PRODUCING CAPACITY |        |        |         |        |        |
|-------------------|--------|--------|--------|--------|--------|--------------------|--------|--------|---------|--------|--------|
| 1990              |        |        | 1991   |        |        | 3/1992             |        |        | 12/1993 |        |        |
| Y                 | S      | TOTAL  | Y      | S      | TOTAL  | Y                  | S      | TOTAL  | Y       | S      | TOTAL  |
| 0                 | 17.5   | 17.5   | 0      | 17.2   | 17.2   | 0                  | 22.0   | 22.0   | 0       | 22.0   | 22.0   |
| 80.0              | 40.0   | 120.0  | 91.4   | 42.6   | 134.0  | 123.5              | 81.5   | 205.0  | 103.0   | 72.0   | 175.0  |
| 0.2               | 0      | 0.2    | 0      | 0      | 0      | 0.5                | 0      | 0.5    | 0       | 0      | 0      |
| 58.7              | 98.3   | 157.0  | 49.0   | 52.0   | 101.0  | 82.0               | 68.0   | 150.0  | 80.0    | 65.0   | 145.0  |
| 363.0             | 414.0  | 777.0  | 347.6  | 390.4  | 738.0  | 520.0              | 548.0  | 1068.0 | 523.0   | 550.0  | 1073.0 |
| 10.2              | 4.0    | 14.2   | 6.0    | 0      | 6.0    | 17.0               | 0      | 17.0   | 8.0     | 0      | 8.0    |
| 16.1              | 76.9   | 93.0   | 16.4   | 78.6   | 95.0   | 36.0               | 95.0   | 131.0  | 23.0    | 90.0   | 113.0  |
| 186.5             | 374.5  | 561.0  | 178.6  | 359.4  | 538.0  | 234.0              | 410.0  | 644.0  | 233.2   | 423.8  | 657.0  |
| 0                 | 57.8   | 57.8   | 0      | 64.0   | 64.0   | 0                  | 74.5   | 74.5   | 0       | 77.0   | 77.0   |
| 79.5              | 171.5  | 251.0  | 77.0   | 166.0  | 243.0  | 112.0              | 227.0  | 339.0  | 109.9   | 223.1  | 333.0  |
| 75.5              | 18.0   | 93.5   | 66.8   | 16.0   | 82.8   | 85.0               | 33.0   | 118.0  | 80.0    | 29.0   | 109.0  |
| 85.0              | 183.5  | 268.5  | 136.0  | 170.8  | 306.8  | 173.0              | 250.0  | 423.0  | 179.7   | 238.5  | 418.2  |
| 100.0             | 82.0   | 182.0  | 77.0   | 103.0  | 180.0  | 100.0              | 171.0  | 271.0  | 101.0   | 138.0  | 239.0  |
| 1054.7            | 1538.0 | 2592.7 | 1045.8 | 1460.0 | 2505.8 | 1483.0             | 1980.0 | 3463.0 | 1440.8  | 1928.4 | 3369.2 |
| 0.5               | 0      | 0.5    | 1.0    | 0      | 1.0    | 2.0                | 0      | 2.0    | 2.0     | 5.0    | 7.0    |
| 33.0              | 41.4   | 74.4   | 32.9   | 35.6   | 68.5   | 56.0               | 67.0   | 123.0  | 56.0    | 67.0   | 123.0  |
| 485.5             | 408.0  | 893.5  | 432.3  | 375.1  | 807.4  | 602.0              | 497.0  | 1099.0 | 613.0   | 562.0  | 1175.0 |
| 92.4              | 48.0   | 140.4  | 66.0   | 24.0   | 90.0   | 101.4              | 87.0   | 188.4  | 112.0   | 87.0   | 199.0  |
| 57.0              | 74.4   | 131.4  | b      | b      | b      | b                  | b      | b      | b       | b      | b      |
| 4.8               | 14.3   | 19.1   | 2.5    | 10.5   | 13.0   | 8.5                | 25.0   | 33.5   | 8.5     | 35.0   | 43.5   |
| 63.6              | 40.8   | 104.4  | 65.8   | 23.2   | 89.0   | 111.2              | 58.0   | 169.2  | 111.2   | 68.0   | 179.2  |
| 39.2              | 100.7  | 139.9  | 37.4   | 125.7  | 163.1  | 53.1               | 171.0  | 224.1  | 53.1    | 171.0  | 224.1  |
| 51.7              | 64.3   | 116.0  | 45.8   | 55.4   | 101.2  | 89.0               | 124.0  | 213.0  | 92.0    | 124.0  | 216.0  |
| 827.7             | 791.9  | 1619.6 | 683.7  | 649.5  | 1333.2 | 1023.2             | 1029.0 | 2052.2 | 1047.8  | 1119.0 | 2166.8 |
| 1882.4            | 2329.9 | 4212.3 | 1729.5 | 2109.5 | 3839.0 | 2506.2             | 3009.0 | 5515.2 | 2488.6  | 3047.4 | 5536.0 |

**TABLE 4:**  
**WORLDWIDE SYNTHETIC (NONCELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY**  
**BY COUNTRY EXCEPT OLEFIN (CONTINUED)**  
**THOUSAND METRIC TONS**

| COUNTRY                                  | ACTUAL PRODUCTION |               |                |               |               |                |               |               |                |
|------------------------------------------|-------------------|---------------|----------------|---------------|---------------|----------------|---------------|---------------|----------------|
|                                          | 1987              |               |                | 1988          |               |                | 1989          |               |                |
|                                          | Y                 | S             | TOTAL          | Y             | S             | TOTAL          | Y             | S             | TOTAL          |
| U.S.A.                                   | 1304.5            | 1789.8        | 3094.3         | 1340.9        | 1806.0        | 3146.9         | 1346.4        | 1773.0        | 3119.4         |
| CANADA                                   | 71.5              | 58.2          | 129.7          | 77.4          | 59.2          | 136.6          | 65.2          | 59.6          | 124.8          |
| <b>OTHER AMERICAS</b>                    |                   |               |                |               |               |                |               |               |                |
| ARGENTINA                                | 27.9              | 29.4          | 57.3           | 28.3          | 20.4          | 48.7           | 24.3          | 19.8          | 44.1           |
| BRAZIL                                   | 136.3             | 111.8         | 248.1          | 125.8         | 113.9         | 239.7          | 131.6         | 114.2         | 245.8          |
| CHILE                                    | 4.4               | 2.7           | 7.1            | 5.1           | 2.8           | 7.9            | 5.3           | 3.0           | 8.3            |
| COLOMBIA                                 | 38.6              | 10.8          | 49.4           | 36.0          | 12.9          | 48.9           | 37.8          | 13.7          | 51.5           |
| COSTA RICA                               | 4.2               | 0             | 4.2            | 4.3           | 0             | 4.3            | 4.5           | 0             | 4.5            |
| ECUADOR                                  | 5.6               | 0             | 5.6            | 6.5           | 0             | 6.5            | 5.2           | 0             | 5.2            |
| MEXICO                                   | 125.3             | 207.9         | 333.2          | 131.6         | 208.7         | 340.3          | 150.0         | 202.8         | 352.8          |
| PERU                                     | 11.9              | 33.5          | 45.4           | 12.2          | 31.6          | 43.8           | 11.5          | 26.6          | 38.1           |
| URUGUAY                                  | 2.0               | 3.4           | 5.4            | 2.1           | 3.6           | 5.7            | 1.9           | 4.8           | 6.7            |
| VENEZUELA                                | 14.3              | 21.9          | 36.2           | 18.1          | 20.9          | 39.0           | 19.3          | 27.6          | 46.9           |
| <b>TOTAL OTHER AMERICAS</b>              | <b>370.5</b>      | <b>421.4</b>  | <b>791.9</b>   | <b>370.0</b>  | <b>414.8</b>  | <b>784.8</b>   | <b>391.4</b>  | <b>412.5</b>  | <b>803.9</b>   |
| <b>JAPAN</b>                             | <b>608.8</b>      | <b>731.8</b>  | <b>1340.6</b>  | <b>618.9</b>  | <b>733.0</b>  | <b>1351.9</b>  | <b>656.9</b>  | <b>724.0</b>  | <b>1380.9</b>  |
| <b>CHINA, PRC</b>                        | <b>209.0</b>      | <b>637.0</b>  | <b>846.0</b>   | <b>407.8</b>  | <b>666.7</b>  | <b>1074.5</b>  | <b>474.3</b>  | <b>748.9</b>  | <b>1223.2</b>  |
| <b>OTHER ASIA</b>                        |                   |               |                |               |               |                |               |               |                |
| BANGLADESH                               | 0.5               | 0             | 0.5            | 0.6           | 0             | 0.6            | 0.6           | 0             | 0.6            |
| INDIA                                    | 160.3             | 105.7         | 266.0          | 200.1         | 121.5         | 321.6          | 217.2         | 149.5         | 366.7          |
| INDONESIA                                | 107.0             | 80.9          | 187.9          | 104.0         | 99.6          | 203.6          | 126.8         | 100.0         | 226.8          |
| KOREA, REP. OF                           | 479.5             | 490.6         | 970.1          | 580.3         | 534.7         | 1115.0         | 628.9         | 561.0         | 1189.9         |
| MALAYSIA                                 | 0                 | 38.9          | 38.9           | 0             | 40.0          | 40.0           | 0             | 41.3          | 41.3           |
| PAKISTAN                                 | 25.6              | 25.4          | 51.0           | 28.4          | 32.3          | 60.7           | 30.0          | 26.0          | 56.0           |
| PHILIPPINES                              | 23.0              | 12.7          | 35.7           | 24.5          | 15.0          | 39.5           | 19.3          | 16.5          | 35.8           |
| SRI LANKA                                | 1.5               | 0             | 1.5            | 1.9           | 0             | 1.9            | 2.0           | 0             | 2.0            |
| TAIWAN                                   | 715.1             | 676.2         | 1391.3         | 732.7         | 697.5         | 1430.2         | 783.5         | 739.6         | 1523.1         |
| THAILAND                                 | 51.3              | 67.2          | 118.5          | 56.2          | 74.4          | 130.6          | 62.7          | 81.5          | 144.2          |
| <b>TOTAL OTHER ASIA</b>                  | <b>1563.8</b>     | <b>1497.6</b> | <b>3061.4</b>  | <b>1728.7</b> | <b>1615.0</b> | <b>3343.7</b>  | <b>1871.0</b> | <b>1715.4</b> | <b>3586.4</b>  |
| <b>MIDDLE EAST, AFRICA &amp; OCEANIA</b> |                   |               |                |               |               |                |               |               |                |
| ALGERIA                                  | 0                 | 0             | 0              | 0             | 0             | 0              | 0             | 0             | 0              |
| AUSTRALIA/NZ                             | 16.0              | 1.1           | 17.1           | 15.7          | 1.2           | 16.9           | 15.0          | 1.6           | 16.6           |
| EGYPT                                    | 6.9               | 32.1          | 39.0           | 8.2           | 34.2          | 42.4           | 9.4           | 38.4          | 47.8           |
| IRAN                                     | 9.5               | 25.9          | 35.4           | 9.9           | 25.0          | 34.9           | 10.3          | 29.0          | 39.3           |
| ISRAEL                                   | 11.5              | 10.0          | 21.5           | 12.0          | 8.0           | 20.0           | 12.4          | 0             | 12.4           |
| KENYA                                    | 5.0               | 1.1           | 6.1            | 5.0           | 1.1           | 6.1            | 6.0           | 1.1           | 7.1            |
| NIGERIA                                  | 4.0               | 3.1           | 7.1            | 4.5           | 3.1           | 7.6            | 4.5           | 1.1           | 5.6            |
| SOUTH AFRICA                             | 54.8              | 35.3          | 90.1           | 60.7          | 35.2          | 95.9           | 57.0          | 35.9          | 92.9           |
| TANZANIA                                 | 3.0               | 0             | 3.0            | 3.0           | 0             | 3.0            | 0             | 0             | 0              |
| <b>TOTAL M.E., A. &amp; O.</b>           | <b>110.7</b>      | <b>108.6</b>  | <b>219.3</b>   | <b>119.0</b>  | <b>107.8</b>  | <b>226.8</b>   | <b>114.6</b>  | <b>107.1</b>  | <b>221.7</b>   |
| <b>TOTAL WORLD</b>                       | <b>6039.7</b>     | <b>7701.2</b> | <b>13740.9</b> | <b>6553.2</b> | <b>7824.6</b> | <b>14377.8</b> | <b>6826.2</b> | <b>7944.0</b> | <b>14770.2</b> |

| ACTUAL PRODUCTION |        |         |        |        |         | PRODUCING CAPACITY |         |         |         |         |         |
|-------------------|--------|---------|--------|--------|---------|--------------------|---------|---------|---------|---------|---------|
| 1990              |        |         | 1991   |        |         | 3/1992             |         |         | 12/1993 |         |         |
| Y                 | S      | TOTAL   | Y      | S      | TOTAL   | Y                  | S       | TOTAL   | Y       | S       | TOTAL   |
| 1259.7            | 1626.3 | 2886.0  | 1303.7 | 1599.2 | 2902.9  | 1644.3             | 2022.6  | 3666.9  | 1711.0  | 2025.8  | 3736.8  |
| 65.4              | 57.6   | 123.0   | 65.6   | 61.1   | 126.7   | 82.4               | 84.0    | 166.4   | 82.4    | 84.0    | 166.4   |
| 26.4              | 20.2   | 46.6    | 27.7   | 20.7   | 48.4    | 44.6               | 34.6    | 79.2    | 45.6    | 34.6    | 80.2    |
| 114.2             | 87.6   | 201.8   | 100.7  | 89.2   | 189.9   | 188.7              | 137.0   | 325.7   | 191.8   | 154.9   | 346.7   |
| 5.4               | 6.5    | 11.9    | 5.2    | 6.2    | 11.4    | 7.7                | 11.0    | 18.7    | 7.7     | 11.0    | 18.7    |
| 41.5              | 14.0   | 55.5    | 41.1   | 17.5   | 58.6    | 59.4               | 39.5    | 98.9    | 61.4    | 39.5    | 100.9   |
| 6.1               | 0      | 6.1     | 6.3    | 0      | 6.3     | 8.0                | 0       | 8.0     | 8.0     | 0       | 8.0     |
| 6.0               | 0      | 6.0     | 5.7    | 0      | 5.7     | 7.2                | 0       | 7.2     | 7.5     | 0       | 7.5     |
| 165.9             | 203.0  | 368.9   | 171.6  | 222.6  | 394.2   | 212.1              | 323.0   | 535.1   | 217.1   | 360.0   | 577.1   |
| 11.3              | 32.2   | 43.5    | 11.5   | 32.1   | 43.6    | 17.5               | 37.0    | 54.5    | 17.5    | 37.0    | 54.5    |
| 1.8               | 4.4    | 6.2     | 1.9    | 4.4    | 6.3     | 4.5                | 5.5     | 10.0    | 4.5     | 5.5     | 10.0    |
| 11.5              | 19.0   | 30.5    | 11.6   | 26.5   | 38.1    | 23.0               | 31.1    | 54.1    | 23.0    | 31.1    | 54.1    |
| 390.1             | 386.9  | 777.0   | 383.3  | 419.2  | 802.5   | 572.7              | 618.7   | 1191.4  | 584.1   | 673.6   | 1257.7  |
| 702.1             | 722.9  | 1425.0  | 714.9  | 714.7  | 1429.6  | 888.0              | 904.0   | 1792.0  | 888.0   | 904.0   | 1792.0  |
| 531.2             | 811.6  | 1342.8  | 564.0  | 885.9  | 1449.9  | 680.0              | 1090.0  | 1770.0  | 745.0   | 1255.0  | 2000.0  |
| 0.6               | 0      | 0.6     | 0.7    | 0      | 0.7     | 1.0                | 0       | 1.0     | 4.6     | 9.0     | 13.6    |
| 259.3             | 177.3  | 436.6   | 262.5  | 177.0  | 439.5   | 376.1              | 368.3   | 744.4   | 461.4   | 462.3   | 923.7   |
| 148.0             | 115.0  | 263.0   | 167.5  | 140.5  | 308.0   | 288.0              | 190.6   | 478.6   | 373.0   | 317.0   | 690.0   |
| 672.3             | 597.4  | 1269.7  | 737.8  | 626.3  | 1364.1  | 830.4              | 661.0   | 1491.4  | 920.4   | 691.0   | 1611.4  |
| 0                 | 41.9   | 41.9    | 0      | 45.0   | 45.0    | 11.0               | 63.0    | 74.0    | 37.0    | 73.0    | 110.0   |
| 31.5              | 40.2   | 71.7    | 36.8   | 64.5   | 101.3   | 68.0               | 105.0   | 173.0   | 72.0    | 125.0   | 197.0   |
| 22.5              | 17.5   | 40.0    | 26.1   | 33.5   | 59.6    | 73.0               | 36.0    | 109.0   | 83.0    | 36.0    | 119.0   |
| 2.1               | 0      | 2.1     | 2.5    | 0      | 2.5     | 3.3                | 0       | 3.3     | 3.3     | 0       | 3.3     |
| 866.0             | 755.5  | 1621.5  | 982.4  | 859.0  | 1841.4  | 1176.7             | 968.4   | 2145.1  | 1176.7  | 968.4   | 2145.1  |
| 69.9              | 91.5   | 161.4   | 87.7   | 126.8  | 214.5   | 208.7              | 193.0   | 401.7   | 244.7   | 252.0   | 496.7   |
| 2072.2            | 1836.3 | 3908.5  | 2304.0 | 2072.6 | 4376.6  | 3036.2             | 2585.3  | 5621.5  | 3376.1  | 2933.7  | 6309.8  |
| 0                 | 0      | 0       | 0      | 0      | 0       | 0                  | 0       | 0       | 0       | 15.0    | 15.0    |
| 15.3              | 2.0    | 17.3    | 14.1   | 2.1    | 16.2    | 20.0               | 2.2     | 22.2    | 20.0    | 2.2     | 22.2    |
| 10.7              | 40.0   | 50.7    | 9.7    | 40.8   | 50.5    | 20.0               | 87.0    | 107.0   | 24.0    | 94.0    | 118.0   |
| 12.2              | 32.0   | 44.2    | 13.2   | 36.1   | 49.3    | 44.0               | 44.0    | 88.0    | 44.0    | 60.0    | 104.0   |
| 12.9              | 0      | 12.9    | 10.8   | 0      | 10.8    | 17.0               | 0       | 17.0    | 17.0    | 0       | 17.0    |
| 6.3               | 1.0    | 7.3     | 6.3    | 1.2    | 7.5     | 15.8               | 3.0     | 18.8    | 15.8    | 3.0     | 18.8    |
| 4.7               | 1.1    | 5.8     | 4.8    | 1.3    | 6.1     | 18.0               | 3.0     | 21.0    | 23.0    | 14.0    | 37.0    |
| 57.3              | 32.2   | 89.5    | 57.5   | 32.4   | 89.9    | 68.8               | 46.7    | 115.5   | 74.7    | 46.7    | 121.4   |
| 0                 | 0      | 0       | 0      | 0      | 0       | 5.0                | 0       | 5.0     | 5.0     | 0       | 5.0     |
| 119.4             | 108.3  | 227.7   | 116.4  | 113.9  | 230.3   | 208.6              | 185.9   | 394.5   | 223.5   | 234.9   | 458.4   |
| 7022.5            | 7879.8 | 14902.3 | 7181.4 | 7976.1 | 15157.5 | 9618.4             | 10499.5 | 20117.9 | 10098.7 | 11158.4 | 21257.1 |

**TABLE 5:**  
**WORLDWIDE ARTIFICIAL (CELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY**  
**BY COUNTRY**  
**THOUSAND METRIC TONS**

| COUNTRY                            | ACTUAL PRODUCTION |              |               |              |               |               |              |               |               |
|------------------------------------|-------------------|--------------|---------------|--------------|---------------|---------------|--------------|---------------|---------------|
|                                    | 1987              |              |               | 1988         |               |               | 1989         |               |               |
|                                    | Y                 | S            | TOTAL         | Y            | S             | TOTAL         | Y            | S             | TOTAL         |
| <b>WESTERN EUROPE <sup>a</sup></b> |                   |              |               |              |               |               |              |               |               |
| AUSTRIA                            |                   |              | 120.0         |              |               | 132.0         |              |               | 136.0         |
| BELGIUM/NETHERLANDS                |                   |              | 40.0          |              |               | 41.0          |              |               | 40.0          |
| FINLAND                            |                   |              | 54.0          |              |               | 60.4          |              |               | 64.8          |
| FRANCE                             |                   | DETAIL       | 23.0          |              | DETAIL        | 15.0          |              | DETAIL        | 2.0           |
| GERMANY <sup>b</sup>               |                   | NO           | 118.0         |              | NO            | 122.0         |              | NO            | 129.0         |
| GREECE                             |                   | LONGER       | 7.8           |              | LONGER        | 7.2           |              | LONGER        | 7.5           |
| ITALY                              |                   | AVAILABLE    | 29.0          |              | AVAILABLE     | 32.0          |              | AVAILABLE     | 35.0          |
| PORTUGAL                           |                   |              | 1.2           |              |               | 0.8           |              |               | 0.9           |
| SPAIN                              |                   |              | 35.0          |              |               | 37.0          |              |               | 40.0          |
| SWEDEN                             |                   |              | 23.0          |              |               | 20.0          |              |               | 20.3          |
| TURKEY                             |                   |              | 8.0           |              |               | 8.7           |              |               | 9.3           |
| UNITED KINGDOM                     |                   |              | 55.0          |              |               | 64.0          |              |               | 55.0          |
| <b>TOTAL WESTERN EUROPE</b>        | <b>185.0</b>      | <b>329.0</b> | <b>514.0</b>  | <b>191.0</b> | <b>349.1</b>  | <b>540.1</b>  | <b>197.0</b> | <b>342.8</b>  | <b>539.8</b>  |
| <b>EASTERN EUROPE</b>              |                   |              |               |              |               |               |              |               |               |
| BULGARIA                           | 4.3               | 0            | 4.3           | 4.4          | 0             | 4.4           | 4.2          | 0             | 4.2           |
| C.I.S.                             | 246.5             | 345.0        | 591.5         | 263.8        | 337.2         | 601.0         | 245.1        | 338.9         | 584.0         |
| CZECHOSLOVAKIA                     | 18.4              | 36.8         | 55.2          | 18.8         | 39.5          | 58.3          | 13.9         | 39.6          | 53.5          |
| EAST GERMANY                       | 35.9              | 120.7        | 156.6         | 36.3         | 118.8         | 155.1         | 28.4         | 121.0         | 149.4         |
| HUNGARY                            | 0                 | 4.1          | 4.1           | 0            | 4.2           | 4.2           | 0            | 4.3           | 4.3           |
| POLAND                             | 19.3              | 54.0         | 73.3          | 20.2         | 54.0          | 74.2          | 17.5         | 48.1          | 65.6          |
| ROMANIA                            | 9.0               | 57.0         | 66.0          | 9.1          | 66.5          | 75.6          | 9.3          | 86.6          | 95.9          |
| YUGOSLAVIA                         | 13.3              | 50.0         | 63.3          | 14.0         | 54.0          | 68.0          | 14.9         | 56.2          | 71.1          |
| <b>TOTAL EASTERN EUROPE</b>        | <b>346.7</b>      | <b>667.6</b> | <b>1014.3</b> | <b>366.6</b> | <b>674.2</b>  | <b>1040.8</b> | <b>333.3</b> | <b>694.7</b>  | <b>1028.0</b> |
| <b>TOTAL EUROPE</b>                | <b>531.7</b>      | <b>996.6</b> | <b>1528.3</b> | <b>557.6</b> | <b>1023.3</b> | <b>1580.9</b> | <b>530.3</b> | <b>1037.5</b> | <b>1567.8</b> |

Y Yarn+monofilaments.

S Staple+tow+fiberfill.

a. Due to disclosure, country detail is no longer available.

b. As of January 1991, East & West Germany combined under Germany.

These totals do not include data for the Indonesian pilot plant nor production of artificial (cellulosic) fiber in North Korea.

Production and producing capacity by country, divided between rayon and acetate yarn, is given on pages 108 - 109.

Also note page 99 for data on production of cigarette tow.

| ACTUAL PRODUCTION |       |        |           |       |        | PRODUCING CAPACITY |        |        |           |        |        |
|-------------------|-------|--------|-----------|-------|--------|--------------------|--------|--------|-----------|--------|--------|
| 1990              |       |        | 1991      |       |        | 3/1992             |        |        | 12/1993   |        |        |
| Y                 | S     | TOTAL  | Y         | S     | TOTAL  | Y                  | S      | TOTAL  | Y         | S      | TOTAL  |
|                   |       | 135.0  |           |       | 120.0  |                    |        | 136.0  |           |        | 136.0  |
|                   |       | 39.0   |           |       | 38.0   |                    |        | 43.0   |           |        | 43.0   |
|                   |       | 63.8   |           |       | 47.4   |                    |        | 72.0   |           |        | 61.0   |
|                   |       | 2.0    |           |       | 2.0    |                    |        | 3.0    |           |        | 3.0    |
| DETAIL            |       |        | DETAIL    |       |        | DETAIL             |        |        | DETAIL    |        |        |
| NO                |       | 130.0  | NO        |       | 118.0  | NO                 |        | 180.0  | NO        |        | 192.0  |
| LONGER            |       | 7.0    | LONGER    |       | 5.0    | LONGER             |        | 8.0    | LONGER    |        | 8.0    |
| AVAILABLE         |       | 36.0   | AVAILABLE |       | 32.0   | AVAILABLE          |        | 44.0   | AVAILABLE |        | 44.0   |
|                   |       | 0.8    |           |       | 0.8    |                    |        | 1.0    |           |        | 1.0    |
|                   |       | 36.0   |           |       | 30.0   |                    |        | 42.0   |           |        | 42.0   |
|                   |       | 24.4   |           |       | 18.8   |                    |        | 25.0   |           |        | 26.0   |
|                   |       | 10.7   |           |       | 10.8   |                    |        | 11.2   |           |        | 11.2   |
|                   |       | 71.0   |           |       | 63.0   |                    |        | 76.0   |           |        | 76.0   |
| 189.0             | 366.7 | 555.7  | 184.8     | 301.0 | 485.8  | 219.0              | 422.2  | 641.2  | 219.0     | 424.2  | 643.2  |
| 4.3               | 0     | 4.3    | 4.2       | 0     | 4.2    | 5.0                | 0      | 5.0    | 5.0       | 0      | 5.0    |
| 221.0             | 323.0 | 544.0  | 229.0     | 288.0 | 517.0  | 282.0              | 339.0  | 621.0  | 282.0     | 339.0  | 621.0  |
| 10.0              | 38.5  | 48.5   | 1.8       | 36.7  | 38.5   | 3.5                | 57.0   | 60.5   | 3.5       | 57.0   | 60.5   |
| 26.1              | 43.0  | 69.1   | b         | b     | b      | b                  | b      | b      | b         | b      | b      |
| 0                 | 4.1   | 4.1    | 0         | 0     | 0      | 10.0               | 0      | 10.0   | 10.0      | 0      | 10.0   |
| 18.3              | 21.8  | 40.1   | 8.3       | 17.2  | 25.5   | 23.0               | 45.0   | 68.0   | 23.0      | 45.0   | 68.0   |
| 9.8               | 50.1  | 59.9   | 6.2       | 31.8  | 38.0   | 11.0               | 88.0   | 99.0   | 11.0      | 88.0   | 99.0   |
| 15.2              | 57.5  | 72.7   | 15.0      | 57.9  | 72.9   | 17.0               | 60.0   | 77.0   | 17.0      | 60.0   | 77.0   |
| 304.7             | 538.0 | 842.7  | 264.5     | 431.6 | 696.1  | 351.5              | 589.0  | 940.5  | 351.5     | 589.0  | 940.5  |
| 493.7             | 904.7 | 1398.4 | 449.3     | 732.6 | 1181.9 | 570.5              | 1011.2 | 1581.7 | 570.5     | 1013.2 | 1583.7 |

**TABLE 5:**  
**WORLDWIDE ARTIFICIAL (CELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY**  
**BY COUNTRY (CONTINUED)**  
**THOUSAND METRIC TONS**

| COUNTRY                                  | ACTUAL PRODUCTION |               |               |              |               |               |              |               |               |
|------------------------------------------|-------------------|---------------|---------------|--------------|---------------|---------------|--------------|---------------|---------------|
|                                          | 1987              |               |               | 1988         |               |               | 1989         |               |               |
|                                          | Y                 | S             | TOTAL         | Y            | S             | TOTAL         | Y            | S             | TOTAL         |
| U.S.A.                                   | 86.7              | 187.9         | 274.6         | 97.0         | 181.3         | 278.3         | 98.7         | 164.6         | 263.3         |
| CANADA                                   | 13.0              | 28.5          | 41.5          | 13.1         | 33.2          | 46.3          | 13.1         | 33.5          | 46.6          |
| <b>OTHER AMERICAS</b>                    |                   |               |               |              |               |               |              |               |               |
| ARGENTINA                                | 3.3               | 2.5           | 5.8           | 3.5          | 0             | 3.5           | 3.4          | 0             | 3.4           |
| BRAZIL                                   | 15.0              | 33.9          | 48.9          | 14.9         | 36.6          | 51.5          | 14.8         | 40.2          | 55.0          |
| CHILE                                    | 1.3               | 4.0           | 5.3           | 1.3          | 4.1           | 5.4           | 1.3          | 4.2           | 5.5           |
| COLOMBIA                                 | 2.3               | 0             | 2.3           | 1.5          | 0             | 1.5           | 1.0          | 0             | 1.0           |
| CUBA                                     | 2.7               | 8.8           | 11.5          | 0.7          | 8.9           | 9.6           | 0.6          | 10.6          | 11.2          |
| MEXICO                                   | 11.4              | 0             | 11.4          | 12.0         | 0             | 12.0          | 12.6         | 0             | 12.6          |
| PERU                                     | 1.1               | 0             | 1.1           | 1.3          | 0             | 1.3           | 1.4          | 0             | 1.4           |
| URUGUAY                                  | 1.2               | 0             | 1.2           | 1.6          | 0             | 1.6           | 1.3          | 0             | 1.3           |
| VENEZUELA                                | 2.2               | 0             | 2.2           | 2.2          | 0             | 2.2           | 1.5          | 0             | 1.5           |
| <b>TOTAL OTHER AMERICAS</b>              | <b>40.5</b>       | <b>49.2</b>   | <b>89.7</b>   | <b>39.0</b>  | <b>49.6</b>   | <b>88.6</b>   | <b>37.9</b>  | <b>55.0</b>   | <b>92.9</b>   |
| <b>JAPAN</b>                             | <b>99.4</b>       | <b>201.1</b>  | <b>300.5</b>  | <b>99.8</b>  | <b>190.8</b>  | <b>290.6</b>  | <b>98.9</b>  | <b>174.0</b>  | <b>272.9</b>  |
| <b>CHINA, PRC</b>                        | <b>55.0</b>       | <b>132.0</b>  | <b>187.0</b>  | <b>47.9</b>  | <b>120.0</b>  | <b>167.9</b>  | <b>47.9</b>  | <b>130.0</b>  | <b>177.9</b>  |
| <b>OTHER ASIA</b>                        |                   |               |               |              |               |               |              |               |               |
| BANGLADESH                               | 4.5               | 1.3           | 5.8           | 4.8          | 1.0           | 5.8           | 5.0          | 1.2           | 6.2           |
| INDIA                                    | 50.7              | 116.8         | 167.5         | 52.6         | 121.5         | 174.1         | 56.4         | 142.3         | 198.7         |
| INDONESIA                                | 0                 | 52.0          | 52.0          | 0            | 59.0          | 59.0          | 0            | 59.0          | 59.0          |
| KOREA, REP. OF                           | 14.1              | 0             | 14.1          | 15.1         | 0             | 15.1          | 15.3         | 0             | 15.3          |
| PAKISTAN                                 | 3.3               | 0             | 3.3           | 2.8          | 0             | 2.8           | 2.8          | 0             | 2.8           |
| PHILIPPINES                              | 0                 | 0             | 0             | 0            | 0             | 0             | 0            | 0             | 0             |
| TAIWAN                                   | 2.4               | 117.2         | 119.6         | 2.6          | 123.2         | 125.8         | 2.6          | 145.0         | 147.6         |
| THAILAND                                 | 0                 | 21.4          | 21.4          | 0            | 24.0          | 24.0          | 0            | 41.2          | 41.2          |
| <b>TOTAL OTHER ASIA</b>                  | <b>75.0</b>       | <b>308.7</b>  | <b>383.7</b>  | <b>77.9</b>  | <b>328.7</b>  | <b>406.6</b>  | <b>82.1</b>  | <b>388.7</b>  | <b>470.8</b>  |
| <b>MIDDLE EAST, AFRICA &amp; OCEANIA</b> |                   |               |               |              |               |               |              |               |               |
| EGYPT                                    | 7.0               | 4.8           | 11.8          | 7.0          | 5.0           | 12.0          | 7.7          | 5.2           | 12.9          |
| IRAQ                                     | 3.1               | 5.5           | 8.6           | 2.9          | 5.5           | 8.4           | 3.0          | 5.6           | 8.6           |
| <b>TOTAL M.E., A &amp; O</b>             | <b>10.1</b>       | <b>10.3</b>   | <b>20.4</b>   | <b>9.9</b>   | <b>10.5</b>   | <b>20.4</b>   | <b>10.7</b>  | <b>10.8</b>   | <b>21.5</b>   |
| <b>TOTAL WORLD</b>                       | <b>911.4</b>      | <b>1914.3</b> | <b>2825.7</b> | <b>942.2</b> | <b>1937.4</b> | <b>2879.6</b> | <b>919.6</b> | <b>1994.1</b> | <b>2913.7</b> |

| ACTUAL PRODUCTION |        |        |       |        |        | PRODUCING CAPACITY |        |        |         |        |        |
|-------------------|--------|--------|-------|--------|--------|--------------------|--------|--------|---------|--------|--------|
| 1990              |        |        | 1991  |        |        | 3/1992             |        |        | 12/1993 |        |        |
| Y                 | S      | TOTAL  | Y     | S      | TOTAL  | Y                  | S      | TOTAL  | Y       | S      | TOTAL  |
| 93.5              | 135.7  | 229.2  | 96.7  | 124.0  | 220.7  | 99.8               | 147.4  | 247.2  | 99.8    | 147.4  | 247.2  |
| 11.2              | 28.5   | 39.7   | 11.3  | 29.5   | 40.8   | 24.5               | 38.0   | 62.5   | 24.5    | 38.0   | 62.5   |
| 2.3               | 0      | 2.3    | 2.7   | 0      | 2.7    | 4.0                | 0      | 4.0    | 4.0     | 0      | 4.0    |
| 14.9              | 39.6   | 54.5   | 14.8  | 44.6   | 59.4   | 17.0               | 47.0   | 64.0   | 17.0    | 57.0   | 74.0   |
| 1.3               | 4.3    | 5.6    | 1.4   | 4.3    | 5.7    | 1.5                | 5.4    | 6.9    | 1.5     | 5.4    | 6.9    |
| 2.0               | 0      | 2.0    | 2.1   | 0      | 2.1    | 3.5                | 0      | 3.5    | 3.5     | 0      | 3.5    |
| 0.1               | 7.9    | 8.0    | 0.3   | 8.3    | 8.6    | 1.5                | 11.0   | 12.5   | 1.5     | 11.0   | 12.5   |
| 12.6              | 0      | 12.6   | 13.4  | 0      | 13.4   | 21.1               | 0      | 21.1   | 21.1    | 0      | 21.1   |
| 1.4               | 0      | 1.4    | 1.4   | 0      | 1.4    | 1.7                | 0      | 1.7    | 1.7     | 0      | 1.7    |
| 1.6               | 0      | 1.6    | 1.7   | 0      | 1.7    | 1.9                | 0      | 1.9    | 1.9     | 0      | 1.9    |
| 1.4               | 0      | 1.4    | 1.5   | 0      | 1.5    | 2.4                | 0      | 2.4    | 2.4     | 0      | 2.4    |
| 37.6              | 51.8   | 89.4   | 39.3  | 57.2   | 96.5   | 54.6               | 63.4   | 118.0  | 54.6    | 73.4   | 128.0  |
| 99.1              | 176.7  | 275.8  | 96.5  | 169.9  | 266.4  | 117.4              | 214.9  | 332.3  | 117.4   | 214.9  | 332.3  |
| 48.7              | 143.0  | 191.7  | 48.9  | 145.0  | 193.9  | 60.0               | 160.0  | 220.0  | 60.0    | 160.0  | 220.0  |
| 4.7               | 1.2    | 5.9    | 4.8   | 1.2    | 6.0    | 6.5                | 5.0    | 11.5   | 6.5     | 5.0    | 11.5   |
| 58.2              | 158.5  | 216.7  | 59.0  | 156.4  | 215.4  | 75.3               | 195.8  | 271.1  | 78.2    | 259.8  | 338.0  |
| 0                 | 60.0   | 60.0   | 0     | 63.0   | 63.0   | 0                  | 205.0  | 205.0  | 0       | 255.0  | 255.0  |
| 15.8              | 0      | 15.8   | 10.9  | 0      | 10.9   | 18.0               | 21.0   | 39.0   | 18.0    | 21.0   | 39.0   |
| 2.8               | 0      | 2.8    | 2.8   | 0      | 2.8    | 3.0                | 0      | 3.0    | 3.0     | 0      | 3.0    |
| 0                 | 0      | 0      | 0     | 0      | 0      | 0                  | 25.0   | 25.0   | 0       | 25.0   | 25.0   |
| 2.2               | 145.7  | 147.9  | 2.1   | 147.0  | 149.1  | 3.2                | 149.7  | 152.9  | 3.2     | 149.7  | 152.9  |
| 0                 | 41.5   | 41.5   | 0     | 45.3   | 45.3   | 0                  | 64.0   | 64.0   | 0       | 75.0   | 75.0   |
| 83.7              | 406.9  | 490.6  | 79.6  | 412.9  | 492.5  | 106.0              | 665.5  | 771.5  | 108.9   | 790.5  | 899.4  |
| 7.9               | 5.2    | 13.1   | 7.9   | 5.2    | 13.1   | 8.0                | 5.4    | 13.4   | 8.0     | 5.4    | 13.4   |
| 3.0               | 5.6    | 8.6    | 3.0   | 5.6    | 8.6    | 3.5                | 6.5    | 10.0   | 3.5     | 6.5    | 10.0   |
| 10.9              | 10.8   | 21.7   | 10.9  | 10.8   | 21.7   | 11.5               | 11.9   | 23.4   | 11.5    | 11.9   | 23.4   |
| 878.4             | 1858.1 | 2736.5 | 832.5 | 1681.9 | 2514.4 | 1044.3             | 2312.3 | 3356.6 | 1047.2  | 2449.3 | 3496.5 |

**TABLE 6:**  
**WORLDWIDE RAYON VS. ACETATE FILAMENT YARN**  
**PRODUCTION & PRODUCING CAPACITY BY COUNTRY**  
**THOUSAND METRIC TONS**

| COUNTRY                        | ACTUAL PRODUCTION |            |            |            |            |            |            |            |           |
|--------------------------------|-------------------|------------|------------|------------|------------|------------|------------|------------|-----------|
|                                | 1987              |            |            | 1988       |            |            | 1989       |            |           |
|                                | H                 | R&C        | A          | H          | R&C        | A          | H          | R&C        | A         |
| <b>WESTERN EUROPE</b>          |                   |            |            |            |            |            |            |            |           |
| AUSTRIA                        |                   |            |            |            |            |            |            |            |           |
| BELGIUM/NETHERLANDS            |                   |            |            |            |            |            |            |            |           |
| FRANCE                         |                   |            |            |            |            |            |            |            |           |
| GERMANY * <sup>d</sup>         |                   |            |            |            |            |            |            |            |           |
| ITALY *                        |                   |            |            |            |            |            |            |            |           |
| SPAIN                          |                   |            |            |            |            |            |            |            |           |
| UNITED KINGDOM                 |                   |            |            |            |            |            |            |            |           |
| OTHER <sup>b</sup>             |                   |            |            |            |            |            |            |            |           |
| <b>TOTAL WESTERN EUROPE</b>    | <b>67</b>         | <b>70</b>  | <b>48</b>  | <b>75</b>  | <b>66</b>  | <b>50</b>  | <b>79</b>  | <b>67</b>  | <b>51</b> |
| <b>EASTERN EUROPE</b>          |                   |            |            |            |            |            |            |            |           |
| BULGARIA                       | 0                 | 4          | 0          | 0          | 4          | 0          | 0          | 4          | 0         |
| C.I.S. *                       | 117               | 80         | 50         | 119        | 85         | 60         | 104        | 91         | 50        |
| CZECHOSLOVAKIA                 | 8                 | 10         | 0          | 9          | 10         | 0          | 5          | 9          | 0         |
| EAST GERMANY                   | 14                | 22         | 0          | 14         | 23         | 0          | 4          | 24         | 0         |
| HUNGARY                        | 0                 | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0         |
| POLAND                         | 5                 | 15         | 0          | 5          | 16         | 0          | 5          | 13         | 0         |
| ROMANIA                        | 5                 | 4          | 0          | 5          | 4          | 0          | 5          | 4          | 0         |
| YUGOSLAVIA                     | 6                 | 7          | 0          | 6          | 7          | 0          | 7          | 8          | 0         |
| <b>TOTAL EASTERN EUROPE</b>    | <b>155</b>        | <b>142</b> | <b>50</b>  | <b>158</b> | <b>149</b> | <b>60</b>  | <b>130</b> | <b>153</b> | <b>50</b> |
| <b>U.S.A. *</b>                | <b>7</b>          | <b>6</b>   | <b>74</b>  | <b>7</b>   | <b>6</b>   | <b>84</b>  | <b>NA</b>  | <b>NA</b>  | <b>NA</b> |
| <b>CANADA</b>                  | <b>0</b>          | <b>0</b>   | <b>13</b>  | <b>0</b>   | <b>0</b>   | <b>13</b>  | <b>NA</b>  | <b>NA</b>  | <b>NA</b> |
| <b>OTHER AMERICAS</b>          |                   |            |            |            |            |            |            |            |           |
| ARGENTINA                      | 0                 | 0          | 3          | 0          | 0          | 3          | 0          | 0          | 3         |
| BRAZIL                         | 0                 | 15         | 0          | 0          | 15         | 0          | 0          | 15         | 0         |
| CHILE                          | 0                 | 1          | 0          | 0          | 1          | 0          | 0          | 1          | 0         |
| COLOMBIA                       | 0                 | 0          | 2          | 0          | 0          | 2          | 0          | 0          | 1         |
| CUBA                           | 3                 | 0          | 0          | 1          | 0          | 0          | 1          | 0          | 0         |
| MEXICO                         | 2                 | 4          | 6          | 2          | 4          | 6          | 2          | 4          | 7         |
| PERU                           | 0                 | 0          | 1          | 0          | 0          | 1          | 0          | 0          | 1         |
| URUGUAY                        | 0                 | 0          | 1          | 0          | 0          | 2          | 0          | 0          | 1         |
| VENEZUELA                      | 0                 | 0          | 2          | 0          | 0          | 2          | 0          | 0          | 2         |
| <b>TOTAL OTHER AMERICAS</b>    | <b>5</b>          | <b>20</b>  | <b>15</b>  | <b>3</b>   | <b>20</b>  | <b>16</b>  | <b>3</b>   | <b>20</b>  | <b>15</b> |
| <b>JAPAN *</b>                 | <b>2</b>          | <b>70</b>  | <b>27</b>  | <b>1</b>   | <b>72</b>  | <b>27</b>  | <b>+</b>   | <b>73</b>  | <b>26</b> |
| <b>CHINA, PRC</b>              | <b>0</b>          | <b>55</b>  | <b>0</b>   | <b>10</b>  | <b>38</b>  | <b>0</b>   | <b>10</b>  | <b>38</b>  | <b>0</b>  |
| <b>OTHER ASIA</b>              |                   |            |            |            |            |            |            |            |           |
| BANGLADESH                     | 0                 | 5          | 0          | 0          | 5          | 0          | 0          | 5          | 0         |
| INDIA                          | 5                 | 46         | +          | 9          | 44         | 0          | 8          | 48         | 0         |
| KOREA, REP. OF                 | 0                 | 12         | 2          | 0          | 12         | 3          | 0          | 11         | 4         |
| PAKISTAN                       | 0                 | 0          | 3          | 0          | 0          | 3          | 0          | 0          | 3         |
| TAIWAN                         | 0                 | 2          | 0          | 0          | 2          | 0          | 0          | 3          | 0         |
| <b>TOTAL OTHER ASIA</b>        | <b>5</b>          | <b>65</b>  | <b>5</b>   | <b>9</b>   | <b>63</b>  | <b>6</b>   | <b>8</b>   | <b>67</b>  | <b>7</b>  |
| <b>OTHER M.E., A &amp; O *</b> | <b>0</b>          | <b>10</b>  | <b>0</b>   | <b>0</b>   | <b>10</b>  | <b>0</b>   | <b>0</b>   | <b>11</b>  | <b>0</b>  |
| <b>WORLD TOTAL</b>             | <b>241</b>        | <b>438</b> | <b>232</b> | <b>263</b> | <b>424</b> | <b>256</b> | <b>NA</b>  | <b>NA</b>  | <b>NA</b> |

NA No Longer Available.

H High tenacity (tire & industrial type) viscose rayon yarn.

R Regular + intermediate tenacity viscose rayon yarn.

C Cuprammonium rayon yarn.

A Acetate + triacetate yarn.

a. Produces both regular + intermediate rayon yarn and cuprammonium rayon yarn.

b. Comprises Greece, Portugal and Turkey.

c. Comprises Egypt and Iraq.

d. As of January 1991, East & West Germany combined under Germany.

| ACTUAL PRODUCTION                   |     |    |                                     |     |    | PRODUCING CAPACITY                  |     |    |                                     |     |    |
|-------------------------------------|-----|----|-------------------------------------|-----|----|-------------------------------------|-----|----|-------------------------------------|-----|----|
| 1990                                |     |    | 1991                                |     |    | 3/1992                              |     |    | 12/1993                             |     |    |
| H                                   | R&C | A  | H                                   | R&C | A  | H                                   | R&C | A  | H                                   | R&C | A  |
| DETAIL<br>NO<br>LONGER<br>AVAILABLE |     |    | DETAIL<br>NO<br>LONGER<br>AVAILABLE |     |    | DETAIL<br>NO<br>LONGER<br>AVAILABLE |     |    | DETAIL<br>NO<br>LONGER<br>AVAILABLE |     |    |
| 71                                  | 67  | 51 | 70                                  | 65  | 50 | 87                                  | 75  | 57 | 87                                  | 75  | 57 |
| 0                                   | 4   | 0  | 0                                   | 4   | 0  | 0                                   | 5   | 0  | 0                                   | 5   | 0  |
| 86                                  | 85  | 50 | 99                                  | 80  | 50 | 135                                 | 87  | 60 | 135                                 | 87  | 60 |
| 3                                   | 7   | 0  | 0                                   | 2   | 0  | 0                                   | 4   | 0  | 0                                   | 4   | 0  |
| 2                                   | 24  | 0  | d                                   | d   | d  | d                                   | d   | d  | d                                   | d   | d  |
| 0                                   | 0   | 0  | 0                                   | 0   | 0  | 0                                   | 10  | 0  | 0                                   | 10  | 0  |
| 4                                   | 14  | 0  | 0                                   | 8   | 0  | 0                                   | 23  | 0  | 0                                   | 23  | 0  |
| 6                                   | 4   | 0  | 4                                   | 2   | 0  | 6                                   | 5   | 0  | 6                                   | 5   | 0  |
| 8                                   | 7   | 0  | 7                                   | 8   | 0  | 8                                   | 9   | 0  | 8                                   | 9   | 0  |
| 109                                 | 145 | 50 | 110                                 | 104 | 50 | 149                                 | 143 | 60 | 149                                 | 143 | 60 |
| NA                                  | NA  | NA | NA                                  | NA  | NA | NA                                  | NA  | NA | NA                                  | NA  | NA |
| NA                                  | NA  | NA | NA                                  | NA  | NA | NA                                  | NA  | NA | NA                                  | NA  | NA |
| 0                                   | 0   | 2  | 0                                   | 0   | 3  | 0                                   | 0   | 4  | 0                                   | 0   | 4  |
| 0                                   | 15  | 0  | 0                                   | 15  | 0  | 0                                   | 17  | 0  | 0                                   | 17  | 0  |
| 0                                   | 1   | 0  | 0                                   | 1   | 0  | 0                                   | 1   | 0  | 0                                   | 1   | 0  |
| 0                                   | 0   | 2  | 0                                   | 0   | 2  | 0                                   | 0   | 4  | 0                                   | 0   | 4  |
| +                                   | 0   | 0  | +                                   | 0   | 0  | 2                                   | 0   | 0  | 2                                   | 0   | 0  |
| 3                                   | 3   | 7  | 3                                   | 3   | 7  | 3                                   | 4   | 14 | 3                                   | 4   | 14 |
| 0                                   | 0   | 1  | 0                                   | 0   | 1  | 0                                   | 0   | 2  | 0                                   | 0   | 2  |
| 0                                   | 0   | 2  | 0                                   | 0   | 2  | 0                                   | 0   | 2  | 0                                   | 0   | 2  |
| 0                                   | 0   | 1  | 0                                   | 0   | 2  | 0                                   | 0   | 2  | 0                                   | 0   | 2  |
| 3                                   | 19  | 15 | 3                                   | 19  | 17 | 5                                   | 22  | 28 | 5                                   | 48  | 28 |
| 0                                   | 72  | 27 | 0                                   | 70  | 27 | 0                                   | 84  | 33 | 0                                   | 84  | 33 |
| 10                                  | 39  | 0  | 10                                  | 39  | 0  | 12                                  | 48  | 0  | 12                                  | 48  | 0  |
| 0                                   | 5   | 0  | 0                                   | 5   | 0  | 0                                   | 7   | 0  | 0                                   | 7   | 0  |
| 7                                   | 51  | 0  | 8                                   | 51  | 0  | 21                                  | 54  | 0  | 21                                  | 57  | 0  |
| 0                                   | 11  | 5  | 0                                   | 6   | 5  | 0                                   | 12  | 6  | 0                                   | 12  | 6  |
| 0                                   | 0   | 3  | 0                                   | 0   | 3  | 0                                   | 0   | 3  | 0                                   | 0   | 3  |
| 0                                   | 2   | 0  | 0                                   | 2   | 0  | 0                                   | 3   | 0  | 0                                   | 3   | 0  |
| 7                                   | 69  | 8  | 8                                   | 64  | 8  | 21                                  | 76  | 9  | 21                                  | 79  | 9  |
| 0                                   | 11  | 0  | 0                                   | 11  | 0  | 0                                   | 12  | 0  | 0                                   | 12  | 0  |
| NA                                  | NA  | NA | NA                                  | NA  | NA | NA                                  | NA  | NA | NA                                  | NA  | NA |

**TABLE 7:**  
**WORLDWIDE SYNTHETIC (NONCELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY**  
**BY FIBER EXCEPT OLEFIN**  
**THOUSAND METRIC TONS**

| FIBER & AREA                                   | ACTUAL PRODUCTION |             |              |             |             |              |             |             |              |
|------------------------------------------------|-------------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|--------------|
|                                                | 1987              |             |              | 1988        |             |              | 1989        |             |              |
|                                                | Y                 | S           | TOTAL        | Y           | S           | TOTAL        | Y           | S           | TOTAL        |
| <b>ACRYLIC+MODACRYLIC</b>                      |                   |             |              |             |             |              |             |             |              |
| WEST EUROPE *                                  | 1                 | 948         | 949          | 1           | 875         | 876          | 1           | 793         | 794          |
| EAST EUROPE                                    | 0                 | 277         | 277          | 0           | 285         | 285          | 0           | 285         | 285          |
| U.S.A.                                         | 0                 | 268         | 268          | 0           | 267         | 267          | 0           | 246         | 246          |
| CANADA                                         | 0                 | 0           | 0            | 0           | 0           | 0            | 0           | 0           | 0            |
| OTHER AMERICAS                                 | 0                 | 181         | 181          | 0           | 181         | 181          | 0           | 171         | 171          |
| JAPAN                                          | 3                 | 404         | 407          | 3           | 395         | 398          | 3           | 364         | 367          |
| CHINA, PRC                                     | 0                 | 75          | 75           | 0           | 77          | 77           | 0           | 105         | 105          |
| OTHER ASIA                                     | 0                 | 344         | 344          | 0           | 351         | 351          | 0           | 360         | 360          |
| MIDDLE EAST, AFRICA & OCEANIA                  | 0                 | 20          | 20           | 0           | 17          | 17           | 0           | 14          | 14           |
| <b>TOTAL</b>                                   | <b>4</b>          | <b>2517</b> | <b>2521</b>  | <b>4</b>    | <b>2448</b> | <b>2452</b>  | <b>4</b>    | <b>2338</b> | <b>2342</b>  |
| <b>NYLON+ARAMID <sup>a</sup></b>               |                   |             |              |             |             |              |             |             |              |
| WEST EUROPE *                                  | 518               | 137         | 655          | 548         | 137         | 685          | 557         | 148         | 705          |
| EAST EUROPE                                    | 576               | 100         | 676          | 593         | 93          | 686          | 587         | 85          | 672          |
| U.S.A.                                         | 770               | 450         | 1220         | 784         | 427         | 1211         | 798         | 445         | 1243         |
| CANADA                                         | 51                | 13          | 64           | 55          | 13          | 68           | 56          | 16          | 72           |
| OTHER AMERICAS                                 | 165               | 10          | 175          | 160         | 7           | 167          | 165         | 7           | 172          |
| JAPAN                                          | 262               | 17          | 279          | 267         | 15          | 282          | 266         | 16          | 282          |
| CHINA, PRC                                     | 79                | 1           | 80           | 93          | 1           | 94           | 101         | 2           | 103          |
| OTHER ASIA                                     | 424               | 6           | 430          | 461         | 6           | 467          | 481         | 6           | 487          |
| MIDDLE EAST, AFRICA & OCEANIA                  | 58                | 1           | 59           | 62          | 1           | 63           | 57          | 1           | 58           |
| <b>TOTAL</b>                                   | <b>2903</b>       | <b>735</b>  | <b>3638</b>  | <b>3023</b> | <b>700</b>  | <b>3723</b>  | <b>3068</b> | <b>726</b>  | <b>3794</b>  |
| <b>POLYESTER</b>                               |                   |             |              |             |             |              |             |             |              |
| WEST EUROPE *                                  | 451               | 510         | 961          | 474         | 538         | 1013         | 487         | 596         | 1083         |
| EAST EUROPE                                    | 249               | 473         | 722          | 269         | 481         | 750          | 264         | 485         | 749          |
| U.S.A.                                         | 535               | 1071        | 1606         | 557         | 1112        | 1669         | 548         | 1082        | 1630         |
| CANADA                                         | 20                | 45          | 65           | 22          | 46          | 68           | 9           | 44          | 53           |
| OTHER AMERICAS                                 | 205               | 230         | 435          | 209         | 227         | 436          | 225         | 234         | 459          |
| JAPAN                                          | 323               | 283         | 606          | 329         | 293         | 622          | 368         | 308         | 676          |
| CHINA, PRC                                     | 120               | 496         | 616          | 307         | 530         | 837          | 365         | 580         | 945          |
| OTHER ASIA                                     | 1140              | 1146        | 2286         | 1267        | 1257        | 2524         | 1390        | 1349        | 2739         |
| MIDDLE EAST, AFRICA & OCEANIA                  | 53                | 88          | 141          | 57          | 90          | 147          | 58          | 92          | 150          |
| <b>TOTAL</b>                                   | <b>3096</b>       | <b>4342</b> | <b>7438</b>  | <b>3491</b> | <b>4575</b> | <b>8066</b>  | <b>3714</b> | <b>4770</b> | <b>8484</b>  |
| <b>OTHER FIBERS EXCEPT OLEFIN <sup>b</sup></b> |                   |             |              |             |             |              |             |             |              |
| WEST EUROPE *                                  | 5                 | 9           | 14           | 5           | 9           | 14           | 9           | 9           | 18           |
| EAST EUROPE                                    | 1                 | 3           | 4            | 1           | 3           | 4            | 1           | 3           | 4            |
| U.S.A.                                         | +                 | +           | +            | +           | +           | +            | +           | +           | +            |
| CANADA                                         | +                 | 0           | +            | +           | 0           | +            | +           | 0           | +            |
| OTHER AMERICAS                                 | 1                 | 0           | 1            | 1           | 0           | 1            | 1           | 0           | 1            |
| JAPAN                                          | 20                | 28          | 48           | 20          | 30          | 50           | 20          | 36          | 56           |
| CHINA, PRC                                     | 10                | 65          | 75           | 8           | 59          | 67           | 8           | 62          | 70           |
| OTHER ASIA                                     | 0                 | 2           | 2            | 0           | 1           | 1            | 0           | 1           | 1            |
| MIDDLE EAST, AFRICA & OCEANIA                  | 0                 | 0           | 0            | 0           | 0           | 0            | 0           | 0           | 0            |
| <b>TOTAL</b>                                   | <b>37</b>         | <b>107</b>  | <b>144</b>   | <b>35</b>   | <b>102</b>  | <b>137</b>   | <b>39</b>   | <b>111</b>  | <b>150</b>   |
| <b>TOTAL FIBERS ABOVE</b>                      |                   |             |              |             |             |              |             |             |              |
| WEST EUROPE *                                  | 975               | 1604        | 2579         | 1028        | 1560        | 2588         | 1054        | 1546        | 2600         |
| EAST EUROPE                                    | 826               | 853         | 1679         | 863         | 862         | 1725         | 852         | 858         | 1710         |
| U.S.A.                                         | 1305              | 1789        | 3094         | 1341        | 1806        | 3147         | 1346        | 1773        | 3119         |
| CANADA                                         | 71                | 58          | 129          | 77          | 59          | 136          | 65          | 60          | 125          |
| OTHER AMERICAS                                 | 371               | 421         | 792          | 370         | 415         | 785          | 391         | 412         | 803          |
| JAPAN                                          | 608               | 732         | 1340         | 619         | 733         | 1352         | 657         | 724         | 1381         |
| CHINA, PRC                                     | 209               | 637         | 846          | 408         | 667         | 1075         | 474         | 749         | 1223         |
| OTHER ASIA                                     | 1564              | 1498        | 3062         | 1728        | 1615        | 3343         | 1871        | 1716        | 3587         |
| MIDDLE EAST, AFRICA & OCEANIA                  | 111               | 109         | 220          | 119         | 108         | 227          | 115         | 107         | 222          |
| <b>WORLD TOTAL</b>                             | <b>6040</b>       | <b>7701</b> | <b>13741</b> | <b>6553</b> | <b>7825</b> | <b>14378</b> | <b>6825</b> | <b>7945</b> | <b>14770</b> |

Y Yarn+monofilaments.

S Staple+tow+fiberfill.

+

Nominal quantities.

-- Negligible

\* As of January 1991, data include East Germany.

a. U.S.A. nylon producing capacity data do not include aramid.

b. Other fibers are alginate, azlon, spandex or elastomer, saran, TFE-fluorocarbon, vinyl and vinyon. U.S.A. production data do not include spandex.

| ACTUAL PRODUCTION |      |       |      |      |       | PRODUCING CAPACITY |       |       |         |       |       | % UTILIZATION <sup>c</sup> |       |
|-------------------|------|-------|------|------|-------|--------------------|-------|-------|---------|-------|-------|----------------------------|-------|
| 1990              |      |       | 1991 |      |       | 3/1992             |       |       | 12/1993 |       |       | Y                          | S     |
| Y                 | S    | TOTAL | Y    | S    | TOTAL | Y                  | S     | TOTAL | Y       | S     | TOTAL |                            |       |
| 0                 | 807  | 807   | 0    | 771  | 771   | 0                  | 1026  | 1026  | 0       | 1001  | 1001  | 0                          | 74.2  |
| 0                 | 262  | 262   | 0    | 225  | 225   | 0                  | 325   | 325   | 0       | 339   | 339   | 0                          | 59.6  |
| 0                 | 229  | 229   | 0    | 206  | 206   | 0                  | 225   | 225   | 0       | 225   | 225   | 0                          | 93.4  |
| 0                 | 0    | 0     | 0    | 0    | 0     | 0                  | 0     | 0     | 0       | 0     | 0     | 0                          | 0     |
| 0                 | 164  | 164   | 0    | 181  | 181   | 0                  | 234   | 234   | 0       | 249   | 249   | 0                          | 74.6  |
| 4                 | 359  | 363   | 4    | 362  | 366   | 6                  | 426   | 432   | 6       | 426   | 432   | 66.7                       | 85.0  |
| 0                 | 122  | 122   | 0    | 128  | 128   | 0                  | 155   | 155   | 0       | 265   | 265   | 0                          | 78.8  |
| 0                 | 360  | 360   | 0    | 394  | 394   | 0                  | 448   | 448   | 0       | 516   | 516   | 0                          | 89.6  |
| 0                 | 17   | 17    | 0    | 20   | 20    | 0                  | 25    | 25    | 0       | 32    | 32    | 0                          | 80.0  |
| 4                 | 2320 | 2324  | 4    | 2287 | 2291  | 6                  | 2864  | 2870  | 6       | 3053  | 3059  | 66.7                       | 78.0  |
| 532               | 153  | 685   | 551  | 155  | 706   | 795                | 216   | 1011  | 771     | 212   | 983   | 75.1                       | 76.4  |
| 562               | 80   | 642   | 468  | 63   | 531   | 660                | 116   | 776   | 674     | 116   | 790   | 67.4                       | 52.9  |
| 758               | 449  | 1207  | 756  | 394  | 1150  | 920                | 506   | 1426  | 975     | 506   | 1481  | 82.7                       | 77.4  |
| 56                | 16   | 72    | 56   | 15   | 71    | 71                 | 24    | 95    | 71      | 24    | 95    | 66.7                       | 62.5  |
| 160               | 6    | 166   | 163  | 6    | 169   | 244                | 12    | 256   | 249     | 12    | 261   | 66.9                       | 46.2  |
| 274               | 15   | 289   | 265  | 14   | 279   | 320                | 25    | 345   | 320     | 25    | 345   | 81.8                       | 53.8  |
| 102               | 2    | 104   | 109  | 5    | 114   | 160                | 10    | 170   | 175     | 15    | 190   | 72.7                       | 50.0  |
| 510               | 6    | 516   | 562  | 4    | 566   | 859                | 10    | 869   | 987     | 20    | 1007  | 71.9                       | 44.4  |
| 59                | 1    | 60    | 59   | 1    | 60    | 105                | 3     | 108   | 106     | 3     | 109   | 59.9                       | 33.3  |
| 3013              | 728  | 3741  | 2989 | 657  | 3646  | 4134               | 922   | 5056  | 4328    | 933   | 5261  | 74.3                       | 71.7  |
| 511               | 570  | 1081  | 481  | 526  | 1007  | 670                | 721   | 1391  | 651     | 700   | 1351  | 74.6                       | 74.6  |
| 265               | 448  | 713   | 215  | 359  | 574   | 362                | 580   | 942   | 373     | 656   | 1029  | 55.9                       | 56.4  |
| 501               | 948  | 1449  | 548  | 999  | 1547  | 724                | 1292  | 2016  | 736     | 1294  | 2030  | 81.5                       | 80.9  |
| 9                 | 42   | 51    | 9    | 46   | 55    | 11                 | 60    | 71    | 11      | 60    | 71    | 81.8                       | 84.4  |
| 229               | 218  | 447   | 219  | 232  | 451   | 327                | 372   | 699   | 333     | 413   | 746   | 69.4                       | 64.3  |
| 405               | 311  | 716   | 428  | 301  | 729   | 530                | 354   | 884   | 530     | 354   | 884   | 81.9                       | 84.2  |
| 420               | 622  | 1042  | 445  | 684  | 1129  | 505                | 850   | 1355  | 555     | 900   | 1455  | 95.4                       | 79.0  |
| 1562              | 1469 | 3031  | 1742 | 1673 | 3415  | 2177               | 2127  | 4304  | 2389    | 2398  | 4787  | 84.1                       | 80.7  |
| 60                | 90   | 150   | 57   | 93   | 150   | 104                | 158   | 262   | 118     | 200   | 318   | 53.3                       | 57.8  |
| 3962              | 4718 | 8680  | 4144 | 4913 | 9057  | 5410               | 6514  | 11924 | 5696    | 6975  | 12671 | 79.8                       | 76.2  |
| 12                | 8    | 20    | 14   | 8    | 22    | 18                 | 17    | 35    | 19      | 15    | 34    | 82.4                       | 51.6  |
| 1                 | 2    | 3     | 1    | 3    | 4     | 1                  | 8     | 9     | 1       | 8     | 9     | 100.0                      | 37.5  |
| +                 | +    | +     | +    | +    | +     | +                  | +     | +     | +       | +     | +     | --                         | --    |
| +                 | 0    | +     | +    | 0    | +     | +                  | 0     | +     | +       | 0     | +     | --                         | 0     |
| 1                 | 0    | 1     | 1    | 0    | 1     | 2                  | 0     | 2     | 2       | 0     | 2     | 50.0                       | 0     |
| 19                | 38   | 57    | 18   | 38   | 56    | 32                 | 99    | 131   | 32      | 99    | 131   | 58.1                       | 38.4  |
| 10                | 65   | 75    | 10   | 69   | 79    | 15                 | 75    | 90    | 15      | 75    | 90    | 66.7                       | 92.0  |
| 0                 | 1    | 1     | 0    | 1    | 1     | +                  | 0     | +     | +       | 0     | +     | 0                          | 100.0 |
| 0                 | 0    | 0     | 0    | 0    | 0     | 0                  | 0     | 0     | 0       | 0     | 0     | 0                          | 0     |
| 43                | 114  | 157   | 44   | 119  | 163   | 68                 | 199   | 267   | 69      | 197   | 266   | 66.7                       | 60.1  |
| 1055              | 1538 | 2593  | 1046 | 1460 | 2506  | 1483               | 1980  | 3463  | 1441    | 1928  | 3369  | 75.0                       | 74.4  |
| 828               | 792  | 1620  | 684  | 650  | 1334  | 1023               | 1029  | 2052  | 1048    | 1119  | 2167  | 63.4                       | 57.0  |
| 1259              | 1626 | 2885  | 1304 | 1599 | 2903  | 1644               | 2023  | 3667  | 1711    | 2025  | 3736  | 82.2                       | 81.4  |
| 65                | 58   | 123   | 65   | 61   | 126   | 82                 | 84    | 166   | 82      | 84    | 166   | 68.4                       | 77.7  |
| 390               | 388  | 778   | 383  | 419  | 802   | 573                | 618   | 1191  | 584     | 674   | 1258  | 68.3                       | 68.0  |
| 702               | 723  | 1425  | 715  | 715  | 1430  | 888                | 904   | 1792  | 888     | 904   | 1792  | 80.9                       | 78.7  |
| 532               | 811  | 1343  | 564  | 886  | 1450  | 680                | 1090  | 1770  | 745     | 1255  | 2000  | 89.3                       | 79.6  |
| 2072              | 1836 | 3908  | 2304 | 2072 | 4376  | 3036               | 2585  | 5621  | 3376    | 2934  | 6310  | 80.8                       | 82.2  |
| 119               | 108  | 227   | 116  | 114  | 230   | 209                | 186   | 395   | 224     | 235   | 459   | 56.4                       | 60.3  |
| 7022              | 7880 | 14902 | 7181 | 7976 | 15157 | 9618               | 10499 | 20117 | 10099   | 11158 | 21257 | 77.3                       | 76.0  |

c. Based on 1991 production and average March 1991 vs. 1992 producing capacity.  
The regional totals here are the same as those on pages 100 - 103.

**TABLE 8:**  
**WORLDWIDE OLEFIN FIBER PRODUCTION**  
**THOUSAND METRIC TONS**

| COUNTRY              | 1987       | 1988       | 1989       | 1990        | 1991        |
|----------------------|------------|------------|------------|-------------|-------------|
| <b>WEST EUROPE</b>   |            |            |            |             |             |
| AUSTRIA              | 27         | 30         | 29         | 30          | 29          |
| BENELUX              | 160        | 165        | 200        | 215         | 230         |
| DENMARK              | 30         | 32         | 36         | 43          | 46          |
| FINLAND              | 18         | 19         | 10         | 11          | 12          |
| FRANCE               | 58         | 70         | 70         | 69          | 73          |
| GREECE/CYPRUS        | 16         | 17         | 18         | 20          | 20          |
| GERMANY <sup>a</sup> | 115        | 135        | 145        | 162         | 174         |
| IRELAND              | 10         | 10         | 10         | 10          | 10          |
| ITALY                | 130        | 135        | 135        | 150         | 150         |
| NORWAY               | 5          | 4          | 5          | 5           | 6           |
| PORTUGAL             | 36         | 37         | 38         | 38          | 40          |
| SPAIN                | 49         | 53         | 56         | 60          | 64          |
| SWEDEN               | 6          | 7          | 8          | 10          | 10          |
| SWITZERLAND          | 20         | 22         | 21         | 23          | 23          |
| TURKEY               | 7          | 7          | 10         | 10          | 10          |
| UNITED KINGDOM       | 125        | 140        | 145        | 150         | 158         |
| <b>TOTAL</b>         | <b>812</b> | <b>883</b> | <b>936</b> | <b>1006</b> | <b>1055</b> |
| <b>WEST EUROPE</b>   |            |            |            |             |             |
| <b>EAST EUROPE</b>   |            |            |            |             |             |
| BULGARIA             | 25         | 25         | 20         | 16          | 12          |
| C.I.S.               | 28         | 32         | 36         | 40          | 66          |
| CZECHOSLOVAKIA       | 42         | 43         | 44         | 46          | 45          |
| EAST GERMANY         | 10         | 10         | 10         | 10          | a           |
| HUNGARY              | 22         | 26         | 28         | 26          | 20          |
| POLAND               | 17         | 22         | 25         | 26          | 24          |
| ROMANIA              | 15         | 17         | 20         | 20          | 18          |
| <b>U.S.A.</b>        |            |            |            |             |             |
| YARN+MONOFIL         | 224        | 251        | 268        | 355         | 375         |
| STAPLE               | 164        | 165        | 173        | 184         | 208         |
| FILM FIBER           | 291        | 293        | 288        | 282         | 251         |

**TABLE 8:**  
**WORLDWIDE OLEFIN FIBER PRODUCTION (CONTINUED)**  
**THOUSAND METRIC TONS**

| COUNTRY                                  | 1987 | 1988 | 1989 | 1990 | 1991 |
|------------------------------------------|------|------|------|------|------|
| <b>CANADA</b>                            | 61   |      |      |      | 67   |
| <b>OTHER AMERICAS</b>                    |      |      |      |      |      |
| ARGENTINA                                | 24   | 18   | 18   | 17   | 20   |
| BRAZIL                                   | 84   | 77   | 82   | 78   | 101  |
| CHILE                                    | 7    | 6    | 8    | 8    | 8    |
| COLOMBIA                                 | 3    | 3    | 3    | 3    | 10   |
| EL SALVADOR                              |      |      |      |      |      |
| GUATEMALA                                | 3    | 3    | 3    | 3    | 4    |
| HONDURAS                                 |      |      |      |      |      |
| MEXICO                                   | 27   | 28   | 28   | 29   | 29   |
| NICARAGUA                                | 1    | 1    | 1    | 1    | 1    |
| PERU                                     | 7    | 7    | 7    | 7    | 7    |
| URUGUAY                                  | 2    | 2    | 2    | 2    | 2    |
| VENEZUELA                                | 0    | 0    | 0    | 5    | 7    |
| <b>JAPAN</b>                             |      |      |      |      |      |
| YARN+MONOFIL                             | 14   | 16   | 20   | 22   | 25   |
| STAPLE                                   | 36   | 38   | 38   | 42   | 46   |
| FILM FIBER                               | NA   | NA   | NA   | NA   | NA   |
| <b>CHINA, PRC</b>                        | 144  | 240  | 165  | 225  | 275  |
| <b>OTHER ASIA</b>                        |      |      |      |      |      |
| KOREA, REP. OF                           | 37   | 44   | 45   | 47   | 52   |
| PHILIPPINES                              | 3    | 3    | 3    | 6    | 10   |
| TAIWAN                                   | 78   | 91   | 90   | 87   | 88   |
| <b>MIDDLE EAST, AFRICA &amp; OCEANIA</b> |      |      |      |      |      |
| AUSTRALIA                                | 20   | 26   | 28   | 30   | 27   |
| SOUTH AFRICA                             | 5    | 5    | 10   | 13   | 14   |
| OTHER                                    | 1    | 1    | 1    | 1    | 1    |

a. As of January 1991, East & West Germany combined under Germany.

The olefin data shown include the "official" country data published by a government, an association or other statistical agency as well as an estimate of the olefin fiber, mainly slit and split film fiber, believed to have been produced in the country. For example, although U.S. olefin production data include yarn, monofil, staple, film fiber, and spunbonded polypropylene, published Italian and Japanese olefin data show the production of yarn+monofilaments and staple+low but no data on production of film fiber, such as that used in sacks, fishing nets, and carpet backing. Estimates were made in the latter example.

Due to the inconsistencies in olefin production reporting, we have made no attempt to show a worldwide total.

**TABLE 9:**  
**NUMBER OF MANUFACTURED FIBER PRODUCING PLANTS (EXCEPT OLEFIN)**

| COUNTRY & REGION                    | ARTIFICIAL (CELL.)   |       | SYNTHETIC (NONCELLULOSIC) |                    |            |                    |       | GLASS FIBER | GRAND TOTAL |
|-------------------------------------|----------------------|-------|---------------------------|--------------------|------------|--------------------|-------|-------------|-------------|
|                                     | ACETATE <sup>a</sup> | RAYON | ACRYLIC <sup>b</sup>      | NYLON <sup>c</sup> | POLY-ESTER | OTHER <sup>d</sup> | TOTAL |             |             |
| WESTERN EUROPE                      |                      |       |                           |                    |            |                    |       |             |             |
| AUSTRIA                             |                      | 3     |                           |                    | 1          | 1                  | 2     |             | 5           |
| BELGIUM/LUXEMBOURG                  | 1                    | 1     |                           | 3                  | 1          |                    | 4     | 2           | 8           |
| FINLAND                             |                      | 1     |                           |                    |            |                    |       | 1           | 2           |
| FRANCE                              |                      | 1     |                           | 6                  | 3          | 2                  | 11    | 2           | 14          |
| GERMANY <sup>f</sup>                | 1                    | 9     | 4                         | 14                 | 12         | 4                  | 34    | 4           | 48          |
| GREECE                              |                      | 1     |                           | 2                  | 2          |                    | 4     |             | 5           |
| IRELAND                             |                      |       | 1                         | 1                  | 2          |                    | 4     |             | 4           |
| ITALY/MALTA                         | 2                    | 2     | 4                         | 18                 | 9          | 3                  | 34    | 2           | 40          |
| NETHERLANDS                         |                      | 2     |                           | 1                  | 1          | 2                  | 4     | 1           | 7           |
| NORWAY                              |                      |       |                           |                    |            |                    |       | 1           | 1           |
| PORTUGAL                            |                      |       | 1                         | 1                  | 1          |                    | 3     | 1           | 4           |
| SPAIN                               | 1                    | 2     | 2                         | 7                  | 5          |                    | 14    | 1           | 18          |
| SWEDEN                              |                      | 1     |                           |                    |            |                    |       | 1           | 2           |
| SWITZERLAND                         |                      |       |                           | 4                  | 4          |                    | 8     |             | 8           |
| TURKEY                              |                      | 1     | 2                         | 4                  | 7          |                    | 13    | 1           | 15          |
| UNITED KINGDOM                      | 3                    | 1     | 2                         | 5                  | 5          | 4                  | 16    | 6           | 26          |
| TOTAL WESTERN EUROPE                | 8                    | 25    | 16                        | 66                 | 53         | 16                 | 151   | 23          | 207         |
| EASTERN EUROPE                      |                      |       |                           |                    |            |                    |       |             |             |
| ALBANIA                             |                      |       |                           |                    | 1          |                    | 1     |             | 1           |
| BULGARIA                            |                      | 1     | 1                         | 1                  | 1          |                    | 3     |             | 4           |
| C.I.S.                              | 4                    | 15    | 2                         | 12                 | 5          | 1                  | 20    | 11          | 50          |
| CZECHOSLOVAKIA                      |                      | 4     |                           | 3                  | 2          |                    | 5     | 2           | 11          |
| HUNGARY                             |                      |       | 1                         | 1                  |            |                    | 2     |             | 2           |
| POLAND                              |                      | 4     | 1                         | 1                  | 2          | 2                  | 6     | 2           | 12          |
| ROMANIA                             |                      | 5     | 2                         | 2                  | 4          |                    | 8     |             | 13          |
| YUGOSLAVIA                          |                      | 2     | 1                         | 2                  | 5          |                    | 8     | 1           | 11          |
| TOTAL EASTERN EUROPE                | 4                    | 31    | 8                         | 22                 | 20         | 3                  | 53    | 16          | 104         |
| U.S.A.                              | 3                    | 3     | 4                         | 33                 | 36         | 12                 | 85    | 16          | 107         |
| CANADA                              | 1                    | 1     |                           | 4                  | 1          | 1                  | 6     | 1           | 9           |
| OTHER AMERICAS                      |                      |       |                           |                    |            |                    |       |             |             |
| ARGENTINA                           | 1                    |       | 1                         | 6                  | 2          | 1                  | 10    | 1           | 12          |
| BRAZIL                              | 1                    | 3     | 2                         | 13                 | 11         | 1                  | 27    | 1           | 32          |
| CHILE                               |                      | 1     |                           | 2                  | 2          |                    | 4     |             | 5           |
| COLOMBIA                            | 1                    |       |                           | 3                  | 4          |                    | 7     |             | 8           |
| COSTA RICA                          |                      |       |                           |                    | 1          |                    | 1     |             | 1           |
| CUBA                                |                      | 1     |                           |                    |            |                    |       |             | 1           |
| ECUADOR                             |                      |       |                           |                    | 3          |                    | 3     |             | 3           |
| GUATEMALA                           |                      |       |                           | 1                  |            |                    | 1     |             | 1           |
| MEXICO                              | 1                    | 1     | 3                         | 8                  | 6          | 2                  | 19    | 1           | 22          |
| PERU                                | 1                    |       | 2                         | 4                  | 4          |                    | 10    |             | 11          |
| URUGUAY                             | 1                    |       |                           | 2                  | 2          |                    | 4     |             | 5           |
| VENEZUELA                           | 1                    |       |                           | 2                  | 3          | 1                  | 6     |             | 7           |
| TOTAL OTHER AMERICAS                | 7                    | 6     | 8                         | 41                 | 36         | 5                  | 92    | 3           | 106         |
| JAPAN                               | 3                    | 11    | 7                         | 10                 | 19         | 18                 | 54    | 7           | 75          |
| CHINA, PRC                          | 6                    | 10    | 12                        | 13                 | 27         | 8                  | 60    | 3           | 73          |
| OTHER ASIA                          |                      |       |                           |                    |            |                    |       |             |             |
| BANGLADESH                          |                      | 2     | 1                         | 1                  |            |                    | 2     |             | 4           |
| INDIA                               | 1                    | 11    | 3                         | 15                 | 24         |                    | 42    |             | 54          |
| INDONESIA                           |                      | 2     | 1                         | 2                  | 10         |                    | 13    |             | 15          |
| KOREA, REP. OF                      | 1                    | 1     | 2                         | 5                  | 12         | 5                  | 24    |             | 26          |
| MALAYSIA                            |                      | 4     | 1                         |                    | 13         |                    | 14    |             | 18          |
| PAKISTAN                            | 1                    |       |                           | 2                  | 12         |                    | 14    |             | 15          |
| PHILIPPINES                         |                      | 1     |                           | 1                  | 1          |                    | 2     |             | 3           |
| SRI LANKA                           |                      |       |                           | 1                  |            |                    | 1     |             | 1           |
| TAIWAN                              |                      | 3     | 3                         | 9                  | 13         |                    | 25    |             | 28          |
| THAILAND                            |                      | 1     | 1                         | 3                  | 4          |                    | 8     |             | 9           |
| TOTAL OTHER ASIA                    | 3                    | 25    | 12                        | 39                 | 69         | 5                  | 145   |             | 173         |
| MIDDLE EAST, AFRICA & OCEANIA       |                      |       |                           |                    |            |                    |       |             |             |
| ALGERIA                             |                      |       |                           |                    | 1          |                    | 1     |             | 1           |
| AUSTRALIA                           |                      |       |                           | 2                  | 2          |                    | 4     | 1           | 5           |
| EGYPT                               |                      | 2     |                           | 1                  | 2          |                    | 3     |             | 5           |
| IRAN                                |                      |       | 1                         | 2                  | 1          |                    | 4     |             | 4           |
| IRAQ                                |                      | 1     |                           |                    |            |                    |       |             | 1           |
| ISRAEL                              |                      |       |                           | 1                  |            |                    | 1     |             | 1           |
| KENYA                               |                      |       |                           | 2                  | 4          |                    | 6     |             | 6           |
| NIGERIA                             |                      |       |                           |                    | 5          |                    | 5     |             | 5           |
| SOUTH AFRICA                        |                      |       |                           | 3                  | 4          |                    | 7     |             | 7           |
| TANZANIA                            |                      |       |                           |                    | 1          |                    | 1     |             | 1           |
| TOTAL MIDDLE EAST, AFRICA & OCEANIA |                      | 3     | 1                         | 11                 | 20         |                    | 32    | 1           | 36          |
| WORLD TOTAL <sup>e</sup>            | 29                   | 115   | 68                        | 239                | 303        | 68                 | 678   | 70          | 892         |

Planned facilities indicated by an asterisk (\*) in our listing of worldwide producers are not included in the above table.

<sup>a</sup> Data for North Korea are not included here.

<sup>b</sup> Acetate includes triacetate.

<sup>c</sup> Acrylic includes modacrylic.

<sup>d</sup> Nylon excludes aramid.

<sup>d</sup> Other includes 23 spandex, 12 vinyon, 6 aramid, 6 vinyl, 5 saran, 2 fluorocarbon, 2 PEEK, 2 PPS, and 1 each of azlon, biconstituent, cupro, PBI, polyacrylate, polycarbonate, polychlor, polyisamide, promix and sulfur.

<sup>e</sup> China, PRC acetate data included with rayon data.

<sup>f</sup> As of January 1991, East & West Germany combined under Germany.

**TABLE 10:**  
**SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN**  
**THOUSAND POUNDS**

| ITEMS & COUNTRY                                             | 1992         |              |              |              |     |     |     |     |     |     |     |     | YEAR TO DATE  |              |
|-------------------------------------------------------------|--------------|--------------|--------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|---------------|--------------|
|                                                             | JAN          | FEB          | MAR          | APR          | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | 1992          | 1991         |
| <b>ARTIFICIAL (CELLULOSIC) YARN, MONOFIL &amp; STRIPS</b>   |              |              |              |              |     |     |     |     |     |     |     |     |               |              |
| AUSTRIA                                                     | 157          | 66           | 48           | 15           |     |     |     |     |     |     |     |     | 286           | 275          |
| BELGIUM                                                     | 100          | 0            | 98           | 64           |     |     |     |     |     |     |     |     | 262           | 89           |
| BRAZIL                                                      | 54           | 105          | 79           | 78           |     |     |     |     |     |     |     |     | 316           | 410          |
| CANADA                                                      | 1201         | 1053         | 1475         | 1499         |     |     |     |     |     |     |     |     | 5228          | 3207         |
| CHILE                                                       | 0            | 0            | 0            | 0            |     |     |     |     |     |     |     |     | 0             | 110          |
| GERMANY                                                     | 1791         | 2639         | 816          | 1202         |     |     |     |     |     |     |     |     | 6448          | 2135         |
| JAPAN                                                       | 176          | 86           | 161          | 221          |     |     |     |     |     |     |     |     | 644           | 478          |
| MEXICO                                                      | 107          | 70           | 105          | 105          |     |     |     |     |     |     |     |     | 387           | 348          |
| NETHERLANDS                                                 | 254          | 262          | 157          | 145          |     |     |     |     |     |     |     |     | 818           | 948          |
| UNITED KINGDOM                                              | 383          | 297          | 416          | 325          |     |     |     |     |     |     |     |     | 1421          | 121          |
| ALL OTHER COUNTRIES <sup>a</sup>                            | 8            | 11           | 20           | 33           |     |     |     |     |     |     |     |     | 72            | 81           |
| <b>TOTAL ARTIFICIAL YARN</b>                                | <b>4231</b>  | <b>4589</b>  | <b>3375</b>  | <b>3687</b>  |     |     |     |     |     |     |     |     | <b>15882</b>  | <b>8182</b>  |
| <b>ARTIFICIAL (CELLULOSIC) STAPLE+TOW+TOPS</b>              |              |              |              |              |     |     |     |     |     |     |     |     |               |              |
| AUSTRIA                                                     | 1567         | 1396         | 1473         | 1104         |     |     |     |     |     |     |     |     | 5540          | 4320         |
| CANADA                                                      | 4675         | 4144         | 4333         | 4376         |     |     |     |     |     |     |     |     | 17528         | 10953        |
| CHINA, PRC                                                  | 0            | 0            | 0            | 0            |     |     |     |     |     |     |     |     | 0             | 783          |
| FINLAND                                                     | 424          | 744          | 473          | 855          |     |     |     |     |     |     |     |     | 2496          | 1020         |
| GERMANY                                                     | 41           | 38           | 0            | 64           |     |     |     |     |     |     |     |     | 143           | 561          |
| JAPAN                                                       | 85           | 25           | 68           | 69           |     |     |     |     |     |     |     |     | 247           | 501          |
| TAIWAN                                                      | 220          | 0            | 287          | 441          |     |     |     |     |     |     |     |     | 948           | 5511         |
| THAILAND                                                    | 189          | 189          | 186          | 134          |     |     |     |     |     |     |     |     | 698           | 2608         |
| UNITED KINGDOM                                              | 702          | 322          | 456          | 425          |     |     |     |     |     |     |     |     | 1905          | 1854         |
| YUGOSLAVIA                                                  | 298          | 0            | 128          | 256          |     |     |     |     |     |     |     |     | 682           | 3808         |
| ALL OTHER COUNTRIES <sup>b</sup>                            | 483          | 541          | 721          | 218          |     |     |     |     |     |     |     |     | 1963          | 551          |
| <b>TOTAL ARTIFICIAL STAPLE+TOW</b>                          | <b>8664</b>  | <b>7399</b>  | <b>8125</b>  | <b>7942</b>  |     |     |     |     |     |     |     |     | <b>32150</b>  | <b>32470</b> |
| <b>SYNTHETIC (NONCELLULOSIC) YARN, MONOFIL &amp; STRIPS</b> |              |              |              |              |     |     |     |     |     |     |     |     |               |              |
| BELGIUM                                                     | 3            | 39           | 31           | 34           |     |     |     |     |     |     |     |     | 107           | 522          |
| BRAZIL                                                      | 0            | 5            | 11           | 3            |     |     |     |     |     |     |     |     | 19            | 48           |
| CANADA                                                      | 4980         | 3882         | 3597         | 6272         |     |     |     |     |     |     |     |     | 18731         | 14075        |
| COSTA RICA                                                  | 485          | 465          | 393          | 754          |     |     |     |     |     |     |     |     | 2097          | 2196         |
| ECUADOR                                                     | 0            | 0            | 0            | 0            |     |     |     |     |     |     |     |     | 0             | 83           |
| FRANCE                                                      | 1128         | 435          | 656          | 570          |     |     |     |     |     |     |     |     | 2789          | 2841         |
| GERMANY                                                     | 1433         | 2244         | 1807         | 2114         |     |     |     |     |     |     |     |     | 7598          | 6424         |
| IRELAND                                                     | 78           | 105          | 334          | 167          |     |     |     |     |     |     |     |     | 684           | 515          |
| ISRAEL                                                      | 294          | 338          | 210          | 191          |     |     |     |     |     |     |     |     | 1033          | 413          |
| ITALY                                                       | 209          | 113          | 119          | 90           |     |     |     |     |     |     |     |     | 531           | 282          |
| JAPAN                                                       | 1687         | 1635         | 1595         | 1419         |     |     |     |     |     |     |     |     | 6336          | 4423         |
| KOREA, REP. OF                                              | 179          | 56           | 159          | 161          |     |     |     |     |     |     |     |     | 557           | 330          |
| MEXICO                                                      | 1047         | 1554         | 1449         | 1474         |     |     |     |     |     |     |     |     | 5524          | 6040         |
| NETHERLANDS                                                 | 412          | 362          | 667          | 279          |     |     |     |     |     |     |     |     | 1720          | 1094         |
| TAIWAN                                                      | 680          | 547          | 37           | 132          |     |     |     |     |     |     |     |     | 1396          | 357          |
| THAILAND                                                    | 107          | 79           | 109          | 94           |     |     |     |     |     |     |     |     | 389           | 288          |
| UNITED KINGDOM                                              | 2218         | 2464         | 3076         | 2480         |     |     |     |     |     |     |     |     | 10238         | 7343         |
| ALL OTHER COUNTRIES <sup>c</sup>                            | 827          | 873          | 800          | 791          |     |     |     |     |     |     |     |     | 3291          | 437          |
| <b>TOTAL SYNTHETIC YARN</b>                                 | <b>15767</b> | <b>15198</b> | <b>15050</b> | <b>17025</b> |     |     |     |     |     |     |     |     | <b>63040</b>  | <b>47711</b> |
| <b>SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+TOPS</b>            |              |              |              |              |     |     |     |     |     |     |     |     |               |              |
| AUSTRIA                                                     | 22           | 13           | 12           | 23           |     |     |     |     |     |     |     |     | 70            | 69           |
| AUSTRALIA                                                   | 31           | 24           | 50           | 33           |     |     |     |     |     |     |     |     | 138           | 299          |
| BRAZIL                                                      | 2            | 0            | 0            | 0            |     |     |     |     |     |     |     |     | 2             | 396          |
| CANADA                                                      | 3647         | 4089         | 5469         | 3288         |     |     |     |     |     |     |     |     | 16493         | 5434         |
| FRANCE                                                      | 551          | 409          | 401          | 558          |     |     |     |     |     |     |     |     | 1919          | 1664         |
| GERMANY                                                     | 1983         | 2109         | 2302         | 2839         |     |     |     |     |     |     |     |     | 9233          | 6199         |
| INDIA                                                       | 93           | 47           | 262          | 1078         |     |     |     |     |     |     |     |     | 1480          | 7151         |
| IRELAND                                                     | 468          | 43           | 427          | 258          |     |     |     |     |     |     |     |     | 1196          | 0            |
| ITALY                                                       | 291          | 56           | 28           | 127          |     |     |     |     |     |     |     |     | 502           | 356          |
| JAPAN                                                       | 2184         | 3017         | 2863         | 3040         |     |     |     |     |     |     |     |     | 11104         | 8503         |
| KOREA, REP. OF                                              | 7466         | 4228         | 9395         | 10932        |     |     |     |     |     |     |     |     | 32021         | 23781        |
| MALAYSIA                                                    | 88           | 44           | 0            | 0            |     |     |     |     |     |     |     |     | 132           | 143          |
| MEXICO                                                      | 1981         | 1579         | 1690         | 2413         |     |     |     |     |     |     |     |     | 7663          | 7851         |
| SPAIN                                                       | 62           | 64           | 104          | 209          |     |     |     |     |     |     |     |     | 439           | 86           |
| SWITZERLAND                                                 | 364          | 144          | 234          | 416          |     |     |     |     |     |     |     |     | 1158          | 681          |
| TAIWAN                                                      | 4520         | 5903         | 5818         | 6736         |     |     |     |     |     |     |     |     | 22977         | 10575        |
| TURKEY                                                      | 127          | 240          | 491          | 40           |     |     |     |     |     |     |     |     | 898           | 113          |
| UNITED KINGDOM                                              | 1444         | 1677         | 1439         | 1742         |     |     |     |     |     |     |     |     | 6302          | 5836         |
| ALL OTHER COUNTRIES <sup>d</sup>                            | 194          | 36           | 81           | 556          |     |     |     |     |     |     |     |     | 867           | 423          |
| <b>TOTAL SYNTHETIC STAPLE+TOW</b>                           | <b>25518</b> | <b>23722</b> | <b>31066</b> | <b>34288</b> |     |     |     |     |     |     |     |     | <b>114594</b> | <b>79530</b> |

a. France 27, Korea, Rep. of 22, India 13, Italy 3, Uruguay 3, Taiwan 2, China, PRC 1, Thailand 1.

b. Spain 662, Brazil 571, Sweden 518, Belgium 77, Poland 43, Czechoslovakia 40, France 31, India 20, Italy 1.

c. South Africa 1709, Spain 325, Switzerland 307, Egypt 223, Australia 179, Portugal 160, India 144, Turkey 119, Austria 52, Hong Kong 19, Yugoslavia 17, Sweden 16, Honduras 9, China, PRC 4, Denmark 3, Colombia 2, Greece 2, Argentina 1.

d. China, PRC 441, Israel 138, Belgium 55, Denmark 52, South Africa 46, Hong Kong 44, Colombia 41, Romania 29, CIS 15, Netherlands 5, Sweden 1.

**TABLE 11:  
U.S. MANUFACTURED FIBER IMPORTS<sup>a</sup>  
THOUSAND POUNDS**

| ITEM                                       | 1992         |              |              |              |     |     |     |     |     |     |     |     | YEAR TO DATE  |               |
|--------------------------------------------|--------------|--------------|--------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|---------------|---------------|
|                                            | JAN          | FEB          | MAR          | APR          | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | 1992          | 1991          |
| <b>ARTIFICIAL (CELLULOSIC) FIBER</b>       |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| FILAMENT YARN                              |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| HIGH TENACITY                              | 1583         | 2545         | 606          | 1024         |     |     |     |     |     |     |     |     | 5758          | 968           |
| TEXTURED                                   | 0            | 0            | 13           | 0            |     |     |     |     |     |     |     |     | 13            | 0             |
| OTHER                                      | 2637         | 2044         | 2756         | 2662         |     |     |     |     |     |     |     |     | 10099         | 7205          |
| MONOFILAMENTS & STRIPS                     | 11           | 0            | 0            | 1            |     |     |     |     |     |     |     |     | 12            | 9             |
| <b>SUBTOTAL ABOVE</b>                      | <b>4231</b>  | <b>4589</b>  | <b>3375</b>  | <b>3687</b>  |     |     |     |     |     |     |     |     | <b>15882</b>  | <b>8182</b>   |
| STAPLE                                     | 8581         | 7288         | 7938         | 7753         |     |     |     |     |     |     |     |     | 31560         | 31732         |
| TOW                                        | 103          | 111          | 187          | 189          |     |     |     |     |     |     |     |     | 590           | 738           |
| TOPS                                       | 0            | 0            | 0            | 0            |     |     |     |     |     |     |     |     | 0             | 0             |
| <b>SUBTOTAL ABOVE</b>                      | <b>8684</b>  | <b>7399</b>  | <b>8125</b>  | <b>7942</b>  |     |     |     |     |     |     |     |     | <b>32150</b>  | <b>32470</b>  |
| <b>WASTE</b>                               | <b>0</b>     | <b>46</b>    | <b>47</b>    | <b>34</b>    |     |     |     |     |     |     |     |     | <b>127</b>    | <b>911</b>    |
| <b>SYNTHETIC (NONCELLULOSIC) FIBERS</b>    |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| FILAMENT YARN                              |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| NYLON                                      |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| HIGH TENACITY                              | 913          | 980          | 950          | 1250         |     |     |     |     |     |     |     |     | 4093          | 7809          |
| TEXTURED                                   |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| UP TO 450 DENIER                           | 411          | 517          | 424          | 475          |     |     |     |     |     |     |     |     | 1827          | 1065          |
| OVER 450 DENIER                            | 3249         | 1978         | 1764         | 3385         |     |     |     |     |     |     |     |     | 10376         | 5609          |
| POY                                        | 2498         | 3305         | 3987         | 3561         |     |     |     |     |     |     |     |     | 13351         | 8679          |
| OTHER                                      | 2245         | 1850         | 1791         | 2394         |     |     |     |     |     |     |     |     | 8280          | 4263          |
| MONOFILAMENTS & STRIPS                     | 172          | 165          | 112          | 183          |     |     |     |     |     |     |     |     | 632           | 484           |
| <b>SUBTOTAL ABOVE</b>                      | <b>9488</b>  | <b>8795</b>  | <b>9028</b>  | <b>11248</b> |     |     |     |     |     |     |     |     | <b>38559</b>  | <b>27909</b>  |
| POLYESTER                                  |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| HIGH TENACITY                              | 1142         | 1602         | 1593         | 1524         |     |     |     |     |     |     |     |     | 5861          | 2765          |
| TEXTURED                                   | 630          | 854          | 835          | 1106         |     |     |     |     |     |     |     |     | 3425          | 2826          |
| POY                                        | 728          | 634          | 302          | 621          |     |     |     |     |     |     |     |     | 2285          | 826           |
| OTHER                                      | 1229         | 1433         | 1192         | 885          |     |     |     |     |     |     |     |     | 4739          | 6460          |
| MONOFILAMENTS & STRIPS                     | 38           | 75           | 29           | 38           |     |     |     |     |     |     |     |     | 180           | 170           |
| <b>SUBTOTAL ABOVE</b>                      | <b>3767</b>  | <b>4598</b>  | <b>3951</b>  | <b>4174</b>  |     |     |     |     |     |     |     |     | <b>16490</b>  | <b>13047</b>  |
| OTHER SYNTHETIC FILAMENT                   |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| TEXTURED                                   | 212          | 93           | 72           | 119          |     |     |     |     |     |     |     |     | 496           | 691           |
| OTHER                                      | 1496         | 1096         | 1231         | 965          |     |     |     |     |     |     |     |     | 4788          | 4027          |
| MONOFILAMENTS & STRIPS                     | 804          | 616          | 768          | 519          |     |     |     |     |     |     |     |     | 2707          | 2037          |
| <b>SUBTOTAL ABOVE</b>                      | <b>2512</b>  | <b>1805</b>  | <b>2071</b>  | <b>1603</b>  |     |     |     |     |     |     |     |     | <b>7991</b>   | <b>6755</b>   |
| STAPLE                                     |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| NYLON                                      | 2554         | 2136         | 3403         | 2803         |     |     |     |     |     |     |     |     | 10896         | 7590          |
| POLYESTER                                  | 17422        | 15430        | 20302        | 24558        |     |     |     |     |     |     |     |     | 77712         | 54083         |
| ACRYLIC                                    | 1607         | 1450         | 2326         | 2048         |     |     |     |     |     |     |     |     | 7431          | 4268          |
| POLYPROPYLENE                              | 168          | 77           | 268          | 340          |     |     |     |     |     |     |     |     | 853           | 1073          |
| OTHER                                      | 265          | 320          | 258          | 182          |     |     |     |     |     |     |     |     | 1025          | 1116          |
| TOW                                        |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| NYLON                                      | 701          | 503          | 688          | 883          |     |     |     |     |     |     |     |     | 2775          | 1760          |
| POLYESTER                                  | 35           | 78           | 122          | 0            |     |     |     |     |     |     |     |     | 235           | 492           |
| ACRYLIC                                    | 2009         | 2686         | 2324         | 2657         |     |     |     |     |     |     |     |     | 9676          | 8762          |
| OTHER                                      | 0            | 39           | 22           | 0            |     |     |     |     |     |     |     |     | 61            | 75            |
| TOPS                                       | 757          | 1003         | 1353         | 817          |     |     |     |     |     |     |     |     | 3930          | 311           |
| <b>SUBTOTAL ABOVE</b>                      | <b>25518</b> | <b>23722</b> | <b>31066</b> | <b>34288</b> |     |     |     |     |     |     |     |     | <b>114594</b> | <b>79530</b>  |
| <b>WASTE</b>                               |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| NYLON                                      | 791          | 1083         | 1481         | 1594         |     |     |     |     |     |     |     |     | 4949          | 6480          |
| POLYESTER                                  | 1022         | 1149         | 1194         | 679          |     |     |     |     |     |     |     |     | 4044          | 4788          |
| OTHER                                      | 606          | 633          | 681          | 946          |     |     |     |     |     |     |     |     | 2866          | 2066          |
| <b>TOTAL MANUFACTURED FIBERS ABOVE</b>     | <b>56619</b> | <b>53819</b> | <b>61019</b> | <b>66195</b> |     |     |     |     |     |     |     |     | <b>237652</b> | <b>182138</b> |
| <b>OTHER MFRD. FIBER YARN &amp; THREAD</b> |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| SEWING THREAD                              |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| FILAMENT                                   | 251          | 136          | 213          | 153          |     |     |     |     |     |     |     |     | 753           | 435           |
| SPUN YARN                                  | 318          | 277          | 317          | 643          |     |     |     |     |     |     |     |     | 1555          | 1984          |
| SPUN YARNS                                 |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| SYNTHETIC                                  | 922          | 559          | 702          | 621          |     |     |     |     |     |     |     |     | 2804          | 2630          |
| ARTIFICIAL                                 | 0            | 0            | 0            | 0            |     |     |     |     |     |     |     |     | 0             | 0             |
| PUT UP FOR RETAIL SALE                     | 48           | 28           | 20           | 41           |     |     |     |     |     |     |     |     | 137           | 251           |
| <b>GRAND TOTAL ABOVE</b>                   | <b>58158</b> | <b>54819</b> | <b>62271</b> | <b>67653</b> |     |     |     |     |     |     |     |     | <b>242901</b> | <b>187438</b> |

SOURCE: U.S. Census Bureau Report IM145X.

a. U.S. General Imports.

**TABLE 12:  
U.S. MANUFACTURED FIBER EXPORTS  
THOUSAND POUNDS**

| ITEM                                       | 1992         |              |              |              |     |     |     |     |     |     |     |     | YEAR TO DATE  |               |
|--------------------------------------------|--------------|--------------|--------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|---------------|---------------|
|                                            | JAN          | FEB          | MAR          | APR          | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | 1992          | 1991          |
| <b>ARTIFICIAL (CELLULOSIC) FIBER</b>       |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| FILAMENT YARN                              |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| HIGH TENACITY                              | 13           | 1            | 1            | 0            |     |     |     |     |     |     |     |     | 15            | 703           |
| TEXTURED                                   | 7            | 61           | 13           | 37           |     |     |     |     |     |     |     |     | 118           | 348           |
| OTHER                                      | 247          | 176          | 191          | 228          |     |     |     |     |     |     |     |     | 842           | 605           |
| MONOFILAMENTS & STRIPS                     | 19           | 42           | 100          | 47           |     |     |     |     |     |     |     |     | 206           | 64            |
| <b>SUBTOTAL ABOVE</b>                      | <b>286</b>   | <b>280</b>   | <b>305</b>   | <b>312</b>   |     |     |     |     |     |     |     |     | <b>1183</b>   | <b>1720</b>   |
| STAPLE                                     | 1371         | 1087         | 1047         | 1643         |     |     |     |     |     |     |     |     | 5146          | 3008          |
| TOPS                                       | 1910         | 479          | 218          | 19           |     |     |     |     |     |     |     |     | 2626          | 18            |
| <b>SUBTOTAL ABOVE</b>                      | <b>3281</b>  | <b>1566</b>  | <b>1265</b>  | <b>1662</b>  |     |     |     |     |     |     |     |     | <b>7774</b>   | <b>3026</b>   |
| <b>WASTE</b>                               | <b>229</b>   | <b>656</b>   | <b>526</b>   | <b>574</b>   |     |     |     |     |     |     |     |     | <b>1987</b>   | <b>3624</b>   |
| <b>SYNTHETIC (NONCELLULOSIC) FIBERS</b>    |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| FILAMENT YARN                              |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| NYLON                                      |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| HIGH TENACITY                              | 4619         | 5521         | 5465         | 5135         |     |     |     |     |     |     |     |     | 20740         | 34643         |
| TEXTURED                                   |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| UP TO 450 DENIER                           | 923          | 786          | 816          | 634          |     |     |     |     |     |     |     |     | 3159          | 5148          |
| OVER 450 DENIER                            | 6214         | 4125         | 4665         | 3499         |     |     |     |     |     |     |     |     | 18503         | 15259         |
| POY                                        | 52           | 80           | 198          | 144          |     |     |     |     |     |     |     |     | 474           | 267           |
| OTHER                                      | 3119         | 3582         | 3893         | 2738         |     |     |     |     |     |     |     |     | 13332         | 12772         |
| MONOFILAMENTS & STRIPS                     | 29           | 32           | 29           | 128          |     |     |     |     |     |     |     |     | 218           | 153           |
| <b>SUBTOTAL ABOVE</b>                      | <b>14956</b> | <b>14126</b> | <b>15066</b> | <b>12276</b> |     |     |     |     |     |     |     |     | <b>56426</b>  | <b>68242</b>  |
| POLYESTER                                  |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| HIGH TENACITY                              | 4556         | 3556         | 4228         | 3783         |     |     |     |     |     |     |     |     | 16123         | 22137         |
| TEXTURED                                   | 5546         | 6616         | 8101         | 7258         |     |     |     |     |     |     |     |     | 27521         | 21421         |
| POY                                        | 884          | 1205         | 1232         | 1411         |     |     |     |     |     |     |     |     | 4732          | 5636          |
| OTHER                                      | 629          | 768          | 745          | 612          |     |     |     |     |     |     |     |     | 2754          | 9118          |
| MONOFILAMENTS & STRIPS                     | 113          | 95           | 99           | 337          |     |     |     |     |     |     |     |     | 644           | 802           |
| <b>SUBTOTAL ABOVE</b>                      | <b>11728</b> | <b>12240</b> | <b>14405</b> | <b>13401</b> |     |     |     |     |     |     |     |     | <b>51774</b>  | <b>59114</b>  |
| OTHER SYNTHETIC FILAMENT                   |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| TEXTURED                                   | 596          | 338          | 407          | 281          |     |     |     |     |     |     |     |     | 1622          | 2323          |
| OTHER                                      | 1569         | 1395         | 2521         | 2129         |     |     |     |     |     |     |     |     | 7614          | 9115          |
| MONOFILAMENTS & STRIPS                     | 967          | 954          | 1275         | 1495         |     |     |     |     |     |     |     |     | 4691          | 4441          |
| <b>SUBTOTAL ABOVE</b>                      | <b>3132</b>  | <b>2687</b>  | <b>4203</b>  | <b>3905</b>  |     |     |     |     |     |     |     |     | <b>13927</b>  | <b>15879</b>  |
| STAPLE                                     |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| NYLON                                      | 2465         | 2456         | 2976         | 2523         |     |     |     |     |     |     |     |     | 10420         | 7704          |
| POLYESTER                                  | 7763         | 8890         | 7719         | 7642         |     |     |     |     |     |     |     |     | 32014         | 34305         |
| ACRYLIC                                    | 1251         | 1310         | 1982         | 2654         |     |     |     |     |     |     |     |     | 7197          | 9692          |
| POLYPROPYLENE                              | 3041         | 3740         | 5748         | 3109         |     |     |     |     |     |     |     |     | 15638         | 10182         |
| OTHER                                      | 454          | 266          | 323          | 262          |     |     |     |     |     |     |     |     | 1305          | 5463          |
| TOW                                        |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| NYLON                                      | 340          | 361          | 359          | 315          |     |     |     |     |     |     |     |     | 1375          | 712           |
| POLYESTER                                  | 108          | 7            | 43           | 40           |     |     |     |     |     |     |     |     | 196           | 170           |
| ACRYLIC                                    | 556          | 557          | 630          | 428          |     |     |     |     |     |     |     |     | 2171          | 3983          |
| OTHER                                      | 1            | 16           | 4            | 1            |     |     |     |     |     |     |     |     | 22            | 424           |
| TOPS                                       | 9392         | 6332         | 3304         | 3984         |     |     |     |     |     |     |     |     | 23012         | 27843         |
| <b>SUBTOTAL ABOVE</b>                      | <b>25371</b> | <b>23935</b> | <b>23088</b> | <b>20958</b> |     |     |     |     |     |     |     |     | <b>93352</b>  | <b>100478</b> |
| <b>WASTE</b>                               |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| NYLON                                      | 2800         | 2293         | 1940         | 2183         |     |     |     |     |     |     |     |     | 9216          | 12016         |
| POLYESTER                                  | 3787         | 4239         | 4659         | 2716         |     |     |     |     |     |     |     |     | 15401         | 16578         |
| OTHER                                      | 6168         | 5955         | 5627         | 5193         |     |     |     |     |     |     |     |     | 22943         | 27650         |
| <b>TOTAL MANUFACTURED FIBERS ABOVE</b>     | <b>71738</b> | <b>67977</b> | <b>71086</b> | <b>63182</b> |     |     |     |     |     |     |     |     | <b>273983</b> | <b>308327</b> |
| <b>OTHER MFRD. FIBER YARN &amp; THREAD</b> |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| SEWING THREAD                              |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| FILAMENT                                   | 610          | 560          | 819          | 455          |     |     |     |     |     |     |     |     | 2444          | 4127          |
| SPUN YARN                                  | 278          | 1332         | 635          | 3130         |     |     |     |     |     |     |     |     | 5375          | 788           |
| SPUN YARNS                                 |              |              |              |              |     |     |     |     |     |     |     |     |               |               |
| SYNTHETIC                                  | 2140         | 1933         | 2542         | 1301         |     |     |     |     |     |     |     |     | 7916          | 5446          |
| ARTIFICIAL                                 | 526          | 355          | 508          | 312          |     |     |     |     |     |     |     |     | 1701          | 748           |
| PUT UP FOR RETAIL SALE                     | 2727         | 2230         | 3082         | 2318         |     |     |     |     |     |     |     |     | 10357         | 8450          |
| <b>GRAND TOTAL ABOVE</b>                   | <b>78019</b> | <b>74387</b> | <b>78672</b> | <b>70698</b> |     |     |     |     |     |     |     |     | <b>301776</b> | <b>327886</b> |

SOURCE: U.S. Census Bureau Report EM522.

**TABLE 13:**  
**FILAMENT YARN DOMESTIC SHIPMENTS <sup>a</sup>**  
**MILLION POUNDS**

| ITEM                                                                |   | ANNUAL DATA |        |        |        | QUARTERLY DATA |        |        |        |        |       |       |       |
|---------------------------------------------------------------------|---|-------------|--------|--------|--------|----------------|--------|--------|--------|--------|-------|-------|-------|
|                                                                     |   | 1988        | 1989   | 1990   | 1991   | 1991           |        |        |        | 1992   |       |       |       |
|                                                                     |   |             |        |        |        | 1ST Q          | 2ND Q  | 3RD Q  | 4TH Q  | 1ST Q  | 2ND Q | 3RD Q | 4TH Q |
| HOSIERY <sup>b</sup>                                                | N | 100.3       | j      | j      | j      | j              | j      | j      | j      | j      |       |       |       |
| OTHER CIRCULAR KNIT <sup>c</sup>                                    | N | 26.4        | 139.1  | 128.1  | 136.0  | 34.1           | 33.9   | 31.8   | 36.2   | 31.8   |       |       |       |
|                                                                     | P | 119.5       | 132.4  | 129.8  | 146.9  | 27.1           | 31.2   | 40.7   | 47.9   | 48.7   |       |       |       |
|                                                                     | C | 0.6         | 0.5    | 0.8    | 0.8    | 0.2            | 0.2    | 0.2    | 0.2    | 0.2    |       |       |       |
| FLAT KNIT                                                           | C | 24.3        | 21.4   | 15.0   | 12.3   | 3.7            | 4.5    | 2.2    | 1.9    | 1.8    |       |       |       |
|                                                                     | N | 133.4       | 125.2  | 103.7  | 106.9  | 25.3           | 24.6   | 28.8   | 28.2   | 28.7   |       |       |       |
|                                                                     | P | 162.1       | 181.0  | 142.7  | 169.8  | 37.4           | 42.6   | 43.8   | 46.0   | 44.5   |       |       |       |
| CARPET FACE                                                         | N | 938.3       | 932.3  | 948.7  | 894.7  | 177.4          | 236.6  | 258.1  | 222.6  | 235.0  |       |       |       |
|                                                                     | O | 266.6       | 249.9  | 360.4  | 420.8  | 90.4           | 107.4  | 112.2  | 110.8  | 103.4  |       |       |       |
| CARPET BACKING <sup>d</sup>                                         | O | 427.0       | 463.4  | 447.5  | 413.3  | 96.5           | 102.7  | 109.5  | 104.6  | 100.4  |       |       |       |
| OTHER BROAD WOVEN <sup>e</sup>                                      | C | 141.9       | 149.4  | 152.9  | 165.8  | 34.4           | 42.8   | 43.7   | 44.9   | 41.0   |       |       |       |
|                                                                     | N | 78.3        | 88.8   | 95.5   | 93.6   | 20.9           | 21.9   | 25.3   | 25.5   | 24.0   |       |       |       |
|                                                                     | P | 391.3       | 360.7  | 353.3  | 383.2  | 86.8           | 97.7   | 100.2  | 98.5   | 91.2   |       |       |       |
|                                                                     | O | 337.3       | 337.5  | 415.0  | 387.4  | 84.1           | 102.7  | 102.3  | 98.3   | 92.2   |       |       |       |
|                                                                     |   |             |        |        |        |                |        |        |        |        |       |       |       |
| NARROW WOVEN <sup>f</sup>                                           | C | 4.4         | 4.4    | 3.2    | 0.5    | 0.2            | 0.1    | 0.1    | 0.1    | 0.1    |       |       |       |
|                                                                     | N | 42.0        | 36.9   | 35.7   | 38.3   | 9.9            | 10.4   | 8.9    | 9.1    | 9.9    |       |       |       |
|                                                                     | P | 81.0        | 76.4   | 73.1   | 69.9   | 13.3           | 18.7   | 19.4   | 18.5   | 15.8   |       |       |       |
|                                                                     | O | 19.0        | 19.8   | 17.3   | 17.9   | 3.9            | 4.7    | 4.7    | 4.6    | 3.6    |       |       |       |
| TIRES, INCL. CHAFER <sup>g</sup>                                    | N | 132.2       | 135.7  | 128.2  | 121.2  | 34.5           | 30.5   | 28.5   | 27.7   | 28.0   |       |       |       |
|                                                                     | P | 171.8       | 174.9  | 167.2  | 155.0  | 37.4           | 39.7   | 37.8   | 40.1   | 45.1   |       |       |       |
| OTHER RUBBER INDUSTRY <sup>c,g</sup>                                | N | 20.4        | 18.1   | 19.1   | 19.7   | 5.1            | 4.7    | 4.8    | 5.1    | 6.5    |       |       |       |
|                                                                     | P | 25.2        | 32.7   | 40.7   | 36.9   | 8.4            | 9.9    | 8.9    | 9.7    | 9.8    |       |       |       |
| ROPE, CORDAGE & FISHLINE                                            | N | 36.4        | 34.2   | 39.2   | 36.1   | 8.8            | 9.9    | 9.0    | 8.4    | 7.8    |       |       |       |
|                                                                     | P | 12.5        | 14.4   | 15.1   | 13.7   | 3.4            | 2.7    | 3.8    | 3.8    | 3.0    |       |       |       |
|                                                                     | O | 120.3       | 125.6  | 120.8  | 101.0  | 26.3           | 26.1   | 22.3   | 26.3   | 30.3   |       |       |       |
| ALL OTHER <sup>h</sup>                                              | C | 11.4        | 11.6   | 0.8    | 0.5    | 0.2            | 0.1    | 0.1    | 0.1    | +      |       |       |       |
|                                                                     | N | 64.7        | 65.0   | 39.3   | 47.4   | 11.1           | 14.2   | 12.5   | 9.6    | 9.2    |       |       |       |
|                                                                     | P | 194.0       | 138.2  | 124.3  | 138.6  | 35.3           | 41.2   | 32.7   | 29.4   | 34.7   |       |       |       |
|                                                                     | O | 29.6        | 29.8   | 43.9   | 40.2   | 10.8           | 9.4    | 10.3   | 9.7    | 9.7    |       |       |       |
| TOTAL ABOVE                                                         | C | 182.6       | 187.3  | 172.7  | 179.9  | 38.7           | 47.7   | 46.3   | 47.2   | 43.1   |       |       |       |
|                                                                     | N | 1572.4      | 1575.3 | 1537.5 | 1493.9 | 327.1          | 386.7  | 407.7  | 372.4  | 380.9  |       |       |       |
|                                                                     | P | 1157.4      | 1110.7 | 1046.2 | 1114.0 | 249.1          | 283.7  | 287.3  | 293.9  | 292.8  |       |       |       |
|                                                                     | O | 1199.8      | 1226.0 | 1404.9 | 1380.6 | 312.0          | 353.0  | 361.3  | 354.3  | 339.6  |       |       |       |
| TOTAL DOMESTIC                                                      |   | 4112.2      | 4099.3 | 4161.3 | 4168.4 | 926.9          | 1071.1 | 1102.6 | 1067.8 | 1056.4 |       |       |       |
| ALSO DIVIDED AS                                                     |   |             |        |        |        |                |        |        |        |        |       |       |       |
| APPAREL                                                             |   | 941.2       | 924.7  | 846.7  | 950.5  | 217.1          | 239.9  | 241.2  | 252.3  | 244.6  |       |       |       |
| HOME TEXTILES                                                       |   | 1902.6      | 1927.2 | 2036.5 | 2002.8 | 426.6          | 519.9  | 551.1  | 505.2  | 506.6  |       |       |       |
| INDUSTRIAL                                                          |   | 1268.4      | 1247.4 | 1278.1 | 1215.1 | 283.2          | 311.3  | 310.3  | 310.3  | 305.2  |       |       |       |
| SHIPMENTS OF FEED & PRODUCER-TEXTURED YARN (NONCARPET) <sup>i</sup> |   |             |        |        |        |                |        |        |        |        |       |       |       |
| NYLON                                                               |   | NA          | NA     | NA     | NA     | NA             | NA     | NA     | NA     | NA     |       |       |       |
| POLYESTER                                                           |   | 649.9       | 597.3  | 560.4  | 655.9  | 146.7          | 164.2  | 167.7  | 177.3  | 173.6  |       |       |       |
| OLEFIN                                                              |   | 24.4        | 26.0   | 28.7   | NA     | 6.0            | 7.9    | NA     | NA     | NA     |       |       |       |

(C) ARTIFICIAL (CELLULOSIC) YARN

(N) NYLON

(P) POLYESTER

(O) OLEFIN

NA No longer available.

- Filament yarn plus monofilament shipments by primary trade or end use; olefin includes spunbonded polypropylene but does not include spunbonded polyethylene.
- Small quantities of polyester and artificial (cellulosic) yarn are included in All Other.
- Small quantities of olefin are included in All Other.
- Small quantities of nylon and polyester are included in All Other.

- Other Broad Woven except carpets, tire fabric, flat belting, etc.
- Narrow Woven includes apparel ribbons and braids, auto seat belts and/or furniture webbing.
- Artificial (cellulosic) yarn quantities included in All Other.
- All Other includes sewing thread and other industrial applications. The olefin quantities include sliver knit backing. Also includes indirect exports.
- These quantities are included in the Total Domestic area above.
- Nylon quantities are included in Other Circular Knit.

**TABLE 14:**  
**STAPLE+TOW DOMESTIC SHIPMENTS**  
MILLION POUNDS

| ITEM                                         |     | ANNUAL DATA |        |        |        | QUARTERLY DATA |       |       |       |       |       |       |       |
|----------------------------------------------|-----|-------------|--------|--------|--------|----------------|-------|-------|-------|-------|-------|-------|-------|
|                                              |     | 1988        | 1989   | 1990   | 1991   | 1991           |       |       |       | 1992  |       |       |       |
|                                              |     |             |        |        |        | 1ST Q          | 2ND Q | 3RD Q | 4TH Q | 1ST Q | 2ND Q | 3RD Q | 4TH Q |
| HOSIERY, SWEATERS & CRAFT YARNS <sup>a</sup> | A   | 183.2       | 174.5  | 139.7  | 135.2  | 30.1           | 38.0  | 32.4  | 34.7  | k     |       |       |       |
|                                              | NPR | 2.7         | 2.1    | 2.4    | 2.4    | 0.6            | 0.4   | 0.7   | 0.7   | 0.4   |       |       |       |
| PILE FABRICS <sup>b</sup>                    | A   | 21.3        | 20.0   | 15.2   | k      | k              | k     | k     | k     | k     |       |       |       |
|                                              | P   | 14.7        | 15.3   | 12.4   | 9.5    | 2.8            | 2.6   | 2.1   | 2.0   | 3.1   |       |       |       |
| OTHER CIRCULAR KNIT + FLAT KNIT <sup>c</sup> | R   | 2.5         | NA     | NA     | NA     | NA             | NA    | NA    | NA    | NA    |       |       |       |
|                                              | A   | 139.0       | 132.4  | 109.0  | 105.9  | 26.9           | 28.8  | 29.7  | 20.5  | 63.5  |       |       |       |
|                                              | P   | 470.0       | 519.5  | 485.3  | 483.7  | 109.4          | 123.0 | 121.3 | 130.0 | 134.9 |       |       |       |
| BLANKETS <sup>b</sup>                        | A   | 25.1        | 29.8   | i      | i      | i              | i     | i     | i     | i     |       |       |       |
|                                              | P   | 6.9         | 9.2    | 3.3    | 4.2    | 0.3            | 0.8   | 0.6   | 2.5   | 1.0   |       |       |       |
| OTHER BROAD WOVEN                            | R   | 243.0       | NA     | NA     | NA     | NA             | NA    | NA    | NA    | NA    |       |       |       |
|                                              | N   | 35.2        | 32.7   | 26.9   | j      | j              | j     | j     | j     | j     |       |       |       |
|                                              | A   | 39.3        | 40.5   | 50.7   | 50.3   | 10.9           | 14.1  | 14.2  | 11.1  | 9.3   |       |       |       |
|                                              | P   | 863.5       | 821.8  | 687.4  | 682.1  | 156.3          | 162.4 | 175.3 | 188.1 | 177.8 |       |       |       |
|                                              | O   | 17.1        | 21.6   | 18.3   | 35.8   | 8.6            | 9.6   | 9.8   | 7.8   | 8.2   |       |       |       |
| CARPET FACE YARNS <sup>f</sup>               | R   | 0.4         | NA     | NA     | NA     | NA             | NA    | NA    | NA    | NA    |       |       |       |
|                                              | N   | 887.7       | 894.9  | 896.8  | 768.9  | 162.2          | 202.0 | 216.4 | 188.3 | 192.4 |       |       |       |
|                                              | P   | 261.2       | 211.6  | 166.5  | 230.4  | 38.2           | 58.8  | 60.5  | 72.9  | 70.5  |       |       |       |
|                                              | O   | 138.2       | 137.7  | 127.4  | 123.4  | 23.9           | 32.2  | 33.2  | 34.1  | 31.7  |       |       |       |
| FIBERFILL <sup>d</sup>                       | P   | 357.2       | 349.5  | 376.3  | 429.5  | 96.5           | 107.5 | 113.1 | 112.4 | 108.5 |       |       |       |
| FLOCK                                        | NP  | 6.9         | 7.5    | 9.6    | 12.4   | 3.3            | 2.7   | 3.1   | 3.3   | 3.9   |       |       |       |
|                                              | R   | 0.1         | NA     | NA     | NA     | NA             | NA    | NA    | NA    | NA    |       |       |       |
| NONWOVENS <sup>e</sup>                       | R   | 122.3       | NA     | NA     | NA     | NA             | NA    | NA    | NA    | NA    |       |       |       |
|                                              | N   | 2.1         | 2.4    | 2.9    | j      | j              | j     | j     | j     | j     |       |       |       |
|                                              | P   | 244.1       | 271.5  | 239.9  | 237.3  | 57.1           | 58.0  | 61.8  | 60.4  | 54.8  |       |       |       |
|                                              | O   | 180.9       | 194.8  | 232.5  | 271.6  | 63.1           | 66.8  | 70.4  | 71.3  | 67.5  |       |       |       |
| ALL OTHER                                    | R   | 17.2        | NA     | NA     | NA     | NA             | NA    | NA    | NA    | NA    |       |       |       |
|                                              | N   | 13.7        | 17.8   | 13.9   | 53.2   | 13.6           | 14.6  | 13.4  | 11.6  | 10.0  |       |       |       |
|                                              | A   | 13.2        | 17.4   | 37.6   | 27.8   | 8.2            | 6.2   | 6.5   | 6.9   | 10.9  |       |       |       |
|                                              | P   | 91.3        | 61.0   | 42.0   | 49.3   | 6.7            | 12.2  | 13.3  | 17.1  | 9.6   |       |       |       |
|                                              | O   | 8.0         | 9.3    | 9.7    | 6.7    | 1.5            | 2.0   | 1.6   | 1.6   | 2.0   |       |       |       |
| TOTAL ABOVE                                  | R   | 386.0       | NA     | NA     | NA     | NA             | NA    | NA    | NA    | NA    |       |       |       |
|                                              | N   | 944.9       | 955.3  | 950.2  | 835.0  | 179.1          | 219.5 | 233.1 | 203.3 | 206.5 |       |       |       |
|                                              | A   | 421.1       | 414.8  | 352.2  | 319.2  | 76.1           | 87.1  | 82.8  | 73.2  | 83.7  |       |       |       |
|                                              | P   | 2311.8      | 2261.3 | 2015.4 | 2127.9 | 467.9          | 525.5 | 548.5 | 586.0 | 560.4 |       |       |       |
|                                              | O   | 344.2       | 363.4  | 387.9  | 437.5  | 97.1           | 110.6 | 115.0 | 114.8 | 109.4 |       |       |       |
| TOTAL DOMESTIC                               |     | 4408.0      | 3994.8 | 3705.7 | 3719.6 | 820.2          | 942.7 | 979.4 | 977.3 | 960.0 |       |       |       |
| ALSO DIVIDED AS                              |     |             |        |        |        |                |       |       |       |       |       |       |       |
| APPAREL                                      |     | 1421.6      | 1266.8 | 1061.6 | 1023.2 | 236.2          | 263.8 | 261.2 | 262.0 | 276.3 |       |       |       |
| HOME TEXTILES                                |     | 1827.5      | 1695.7 | 1597.4 | 1517.3 | 315.2          | 385.4 | 408.2 | 408.5 | 399.8 |       |       |       |
| INDUSTRIAL                                   |     | 1158.9      | 1032.3 | 1046.7 | 1179.1 | 268.8          | 293.5 | 310.0 | 306.8 | 283.9 |       |       |       |

(R) RAYON<sup>h</sup>    (N) NYLON    (A) ACRYLIC+MODACRYLIC    (P) POLYESTER    (O) OLEFIN<sup>g</sup>

NA No longer available.

- a. Olefin quantities are included in All Other.
- b. Rayon and nylon quantities are included in All Other.
- c. Nylon quantities are included in All Other.
- d. Rayon, acrylic and nylon quantities are included in All Other.
- e. Wet & dry laid and needled batts only.

- f. Acrylic and nylon quantities are included in All Other.
- g. Data exclude Vinyon.
- h. Rayon staple+tow data no longer available in 1989-1992.
- i. Acrylic quantities are included in All Other.
- j. Nylon quantities are included in All Other.
- k. Acrylic quantities are included in Other Circular Knit + Flat Knit.

**TABLE 15:  
SELECTED U.S. MONTHLY FIBER DATA**  
MILLION POUNDS

| ITEM                                                    | 1992               |                    |                    |                    |              |     |     |     |     |     |     |     | YEAR TO DATE <sup>a</sup> |               |
|---------------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------|-----|-----|-----|-----|-----|-----|-----|---------------------------|---------------|
|                                                         | JAN                | FEB                | MAR                | APR                | MAY          | JUN | JUL | AUG | SEP | OCT | NOV | DEC | 1992                      | 1991          |
| <b>MANUFACTURED FIBER TOTAL SHIPMENTS<sup>b c</sup></b> |                    |                    |                    |                    |              |     |     |     |     |     |     |     |                           |               |
| <b>ARTIFICIAL (CELLULOSEIC)</b>                         |                    |                    |                    |                    |              |     |     |     |     |     |     |     |                           |               |
| YARN                                                    | 16.8               | 17.9               | 17.4               | 21.7               | 19.0         |     |     |     |     |     |     |     | 92.8                      | 85.7          |
| RAYON STAPLE                                            | 23.0               | 21.0               | 22.7               | 19.8               | 23.9         |     |     |     |     |     |     |     | 110.4                     | 105.8         |
| <b>TOTAL ARTIFICIAL (CELLULOSEIC)</b>                   | <b>39.8</b>        | <b>38.9</b>        | <b>40.1</b>        | <b>41.5</b>        | <b>42.9</b>  |     |     |     |     |     |     |     | <b>203.2</b>              | <b>191.5</b>  |
| <b>SYNTHETIC (NONCELLULOSEIC)</b>                       |                    |                    |                    |                    |              |     |     |     |     |     |     |     |                           |               |
| <b>YARN+MONOFILAMENTS</b>                               |                    |                    |                    |                    |              |     |     |     |     |     |     |     |                           |               |
| NYLON - INDUSTRIAL <sup>d</sup>                         | 25.2               | 23.2               | 28.8               | 27.7               | 26.2         |     |     |     |     |     |     |     | 131.1                     | 140.3         |
| - CARPET                                                | 82.4               | 77.9               | 86.2               | 92.5               | 86.5         |     |     |     |     |     |     |     | 425.5                     | 353.8         |
| - TEXTILE <sup>f</sup>                                  | 33.9               | 29.2               | 31.8               | 30.4               | 31.1         |     |     |     |     |     |     |     | 156.4                     | 158.9         |
| POLYESTER - INDUSTRIAL <sup>d</sup>                     | 30.4               | 28.6               | 31.4               | 34.7               | 32.5         |     |     |     |     |     |     |     | 157.6                     | 136.6         |
| - TEXTILE <sup>f</sup>                                  | 71.2               | 67.8               | 77.1               | 81.3               | 74.1         |     |     |     |     |     |     |     | 371.5                     | 344.1         |
| OLEFIN <sup>g</sup>                                     | 110.0              | 115.0              | 121.4              | 129.7              | 130.4        |     |     |     |     |     |     |     | 606.5                     | 557.5         |
| <b>TOTAL YARN</b>                                       | <b>353.1</b>       | <b>341.7</b>       | <b>376.7</b>       | <b>396.3</b>       | <b>380.8</b> |     |     |     |     |     |     |     | <b>1848.6</b>             | <b>1691.2</b> |
| <b>STAPLE+TOW+FIBERFILL</b>                             |                    |                    |                    |                    |              |     |     |     |     |     |     |     |                           |               |
| NYLON                                                   | 70.8               | 63.5               | 79.3               | 85.3               | 77.6         |     |     |     |     |     |     |     | 376.5                     | 341.5         |
| ACRYLIC+MODACRYLIC                                      | 35.1               | 33.5               | 39.5               | 39.5               | 38.2         |     |     |     |     |     |     |     | 185.8                     | 178.5         |
| POLYESTER                                               | 195.1              | 186.8              | 203.1              | 208.9              | 177.4        |     |     |     |     |     |     |     | 971.3                     | 877.3         |
| OLEFIN                                                  | 36.0               | 38.4               | 39.4               | 37.9               | 37.1         |     |     |     |     |     |     |     | 188.8                     | 179.4         |
| <b>TOTAL STAPLE</b>                                     | <b>337.0</b>       | <b>322.2</b>       | <b>361.3</b>       | <b>371.6</b>       | <b>330.3</b> |     |     |     |     |     |     |     | <b>1722.4</b>             | <b>1576.7</b> |
| <b>TOTAL SYNTHETIC (NONCELLULOSEIC)</b>                 | <b>690.1</b>       | <b>663.9</b>       | <b>738.0</b>       | <b>767.9</b>       | <b>711.1</b> |     |     |     |     |     |     |     | <b>3571.0</b>             | <b>3267.9</b> |
| <b>TOTAL MANUFACTURED FIBER</b>                         | <b>729.9</b>       | <b>702.6</b>       | <b>778.1</b>       | <b>809.4</b>       | <b>754.0</b> |     |     |     |     |     |     |     | <b>3774.2</b>             | <b>3459.4</b> |
| <b>MANUFACTURED FIBER END-OF-MONTH STOCK</b>            |                    |                    |                    |                    |              |     |     |     |     |     |     |     |                           |               |
| <b>ARTIFICIAL (CELLULOSEIC)</b>                         |                    |                    |                    |                    |              |     |     |     |     |     |     |     |                           |               |
| YARN                                                    | 11.3               | 11.2               | 10.9               | 11.5               | 12.4         |     |     |     |     |     |     |     | 12.4                      | 9.4           |
| RAYON STAPLE                                            | 25.6               | 25.7               | 26.9               | 30.7               | 30.4         |     |     |     |     |     |     |     | 30.4                      | 23.9          |
| <b>TOTAL ARTIFICIAL (CELLULOSEIC)</b>                   | <b>36.9</b>        | <b>36.9</b>        | <b>37.8</b>        | <b>42.2</b>        | <b>42.8</b>  |     |     |     |     |     |     |     | <b>42.8</b>               | <b>33.3</b>   |
| <b>SYNTHETIC (NONCELLULOSEIC)</b>                       |                    |                    |                    |                    |              |     |     |     |     |     |     |     |                           |               |
| <b>YARN+MONOFILAMENTS</b>                               |                    |                    |                    |                    |              |     |     |     |     |     |     |     |                           |               |
| NYLON - INDUSTRIAL <sup>d</sup>                         | 30.7               | 29.6               | 24.5               | 22.8               | 22.5         |     |     |     |     |     |     |     | 22.5                      | 26.1          |
| - CARPET                                                | 82.8               | 81.3               | 79.0               | 71.7               | 69.1         |     |     |     |     |     |     |     | 69.1                      | 58.5          |
| - TEXTILE <sup>f</sup>                                  | 43.4               | 48.6               | 52.7               | 50.0               | 48.8         |     |     |     |     |     |     |     | 48.8                      | 47.3          |
| POLYESTER - INDUSTRIAL <sup>d</sup>                     | 34.6               | 35.9               | 34.5               | 33.5               | 34.4         |     |     |     |     |     |     |     | 34.4                      | 42.5          |
| - TEXTILE <sup>f</sup>                                  | 98.0               | 98.7               | 94.1               | 80.2               | 80.4         |     |     |     |     |     |     |     | 80.4                      | 90.7          |
| OLEFIN <sup>g</sup>                                     | 58.8               | 59.5               | 57.4               | 54.4               | 50.9         |     |     |     |     |     |     |     | 50.9                      | 56.4          |
| <b>TOTAL YARN</b>                                       | <b>348.3</b>       | <b>353.6</b>       | <b>342.2</b>       | <b>312.6</b>       | <b>306.1</b> |     |     |     |     |     |     |     | <b>306.1</b>              | <b>321.5</b>  |
| <b>STAPLE+TOW+FIBERFILL</b>                             |                    |                    |                    |                    |              |     |     |     |     |     |     |     |                           |               |
| NYLON                                                   | 64.0               | 63.5               | 56.5               | 51.0               | 55.1         |     |     |     |     |     |     |     | 55.1                      | 61.2          |
| ACRYLIC+MODACRYLIC                                      | 82.3               | 83.1               | 79.7               | 75.2               | 74.2         |     |     |     |     |     |     |     | 74.2                      | 74.9          |
| POLYESTER                                               | 144.3              | 147.3              | 146.9              | 137.7              | 135.8        |     |     |     |     |     |     |     | 135.8                     | 170.5         |
| OLEFIN                                                  | 33.6               | 35.3               | 38.1               | 41.4               | 43.1         |     |     |     |     |     |     |     | 43.1                      | 30.1          |
| <b>TOTAL STAPLE</b>                                     | <b>324.2</b>       | <b>329.2</b>       | <b>321.2</b>       | <b>305.3</b>       | <b>308.2</b> |     |     |     |     |     |     |     | <b>308.2</b>              | <b>336.7</b>  |
| <b>TOTAL SYNTHETIC (NONCELLULOSEIC)</b>                 | <b>672.5</b>       | <b>682.8</b>       | <b>663.4</b>       | <b>617.9</b>       | <b>614.3</b> |     |     |     |     |     |     |     | <b>614.3</b>              | <b>658.2</b>  |
| <b>TOTAL MANUFACTURED FIBER</b>                         | <b>709.4</b>       | <b>719.7</b>       | <b>701.2</b>       | <b>660.1</b>       | <b>657.1</b> |     |     |     |     |     |     |     | <b>657.1</b>              | <b>691.5</b>  |
| <b>COTTON CONSUMPTION</b>                               |                    |                    |                    |                    |              |     |     |     |     |     |     |     |                           |               |
| RAW COTTON                                              | 369.5              | 383.0              | 495.5              | 377.3              |              |     |     |     |     |     |     |     | 1625.3                    | NA            |
| <b>WOOL CONSUMPTION<sup>g</sup></b>                     |                    |                    |                    |                    |              |     |     |     |     |     |     |     |                           |               |
|                                                         | <b>1ST QUARTER</b> | <b>2ND QUARTER</b> | <b>3RD QUARTER</b> | <b>4TH QUARTER</b> |              |     |     |     |     |     |     |     |                           |               |
| APPAREL CLASS WOOL                                      | 39.3               |                    |                    |                    |              |     |     |     |     |     |     |     | 39.3                      | 33.7          |
| CARPET CLASS WOOL                                       | 4.6                |                    |                    |                    |              |     |     |     |     |     |     |     | 4.6                       | 3.1           |
| <b>TOTAL RAW WOOL</b>                                   | <b>43.9</b>        |                    |                    |                    |              |     |     |     |     |     |     |     | <b>43.9</b>               | <b>36.8</b>   |

NA - Not Available

a. "Year to date" totals for stock, are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes low denier industrial yarn.

g. Wool data available on a quarterly basis only.

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- Shipments by Denier
- Indirect Exports

### Quarterly

- Production
- Domestic Shipments
- Imports
- Exports
- Shipments by Denier
- Inventories
- Primary End Use
- Secondary End Use
- Waste Shipments
- Civil Engineering Fabric Shipments

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